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Mailed: February 1, 1951
FOR RELEASE: Immediate

CHICAGO -- Dr. Ralph G. Owens, 45, of 405 Gerald avenue, Park Ridge, has been named assistant dean of engineering at Illinois Institute of Technology, it was announced today by Dr. John T. Rettaliata, vice president.

Dr. Owens, who has served as professor of mechanical engineering at Illinois Tech since 1946, replaces Chester A. Arents who was recently named coordinator of research.

A native of Eaton, Ohio, Owens received his bachelors's degree in electrical engineering in 1927, and his master's degree in 1928, both at Ohio State University. He received his doctorate in 1939 at the University of Michigan.

Owens was an instructor at West Virginia University from 1928 to 1930, at Western Reserve University from 1930 to 1937, and at Wayne University from 1938 to 1941.

From 1941 to 1943 he was assistant professor at Colorado School of Mines, and in February, 1943 was appointed associate professor and department head there.

In June of 1943 he joined the Armour Research Foundation of Illinois Institute of Technology as supervisor of thermodynamics and remained there until 1946.

Owens is a member of the American Association for Advancement of Science, American Society of Mechanical Engineers, American Society of Refrigeration Engineers, American Society for Engineering Education, Sigma Xi, and American Physical Society.

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Mailed: February 1, 1951
FOR RELEASE: Immediate

CHICAGO -- William E. Mahin, director of research at Armour Research Foundation of Illinois Institute of Technology, will lecture February 27 on "Gray Cast Iron" for the Tri-City chapter of the American Society for Metals.

His talk will be the second in a series of five educational lectures on foundry operation sponsored by the ASM.

Mahim, a graduate of Notre Dame, received his master's degree from Carnegie Institute of Technology. A member of the National Research Council, he joined Armour in 1947 and headed the Metals Department before he became director of research in 1949.

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Mailed: February 1, 1951
FOR RELEASE: Immediate

CHICAGO -- Fourteen students at Illinois Institute of Technology have been awarded one-semester scholarships there, it was announced today by Clarence E. Deakins, dean of students.

Awards were made on the basis of outstanding scholastic achievement and are effective beginning February 12 when classes resume for the spring semester.

Winners are:

North

Miss Charlotte E. Decker, 5527 N. Glenwood ave., senior in physics -- White Eckhart Fund; John J. Render, 1419 W. Byron st., junior in chemistry -- Alfred L. Eustice Fund.

Northwest

Richard Kummert, 1504 N. Lavergne ave., freshman in business and economics -- Loring Fund; Miss Elizabeth M. Zographos, 3022 N. Laramie ave., freshman in mathematics -- B. A. Eckhardt Scholarship.

West

Miss Mae Chakinis, 5565 W. Congress st., sophomore in home economics -- Julia A. Beveridge Fund; William T. Gross, 3341 Warren blvd., junior in mechanical engineering -- STEPHENS-Adamson Scholarship;;Miss Elaine M. Krause, 1157 S. Elmwood ave., Oak Park, junior in home economics -- Isadore S. Prenner Scholarship; Jim J. Lang, 1934 S. 55th court, Cicero, senior in mechanical engineering -- Stephens-Adamson Scholarship.

-more-

Miss Enid Levy, 3458 W. Polk st., sophomore in English -- Memorial Fund; Robert J. Mateer, 248 Washington blvd., Oak Park, junior in physics -- Kate W. Tibbals Scholarship; Sherman Sussman, 742 Independence blvd., sophomore in chemistry -- Memorial Fund; Herbert N. Underwood, 740 N. Troy st., sophomore in mechanical engineering -- Stephens-Adamson Scholarship.

Southwest

George C. Gallagher, Jr., 2222 W. 109th st., , junior in civil engineering -- Edward Elcock Fund; James P. Stebbins, 2541 Walnut st., Blue Island, junior in chemistry -- Catherine White & Isadore Prenner Funds.

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February 2, 1951

Mailed: Immediate

FOR RELEASE:

CHICAGO -- James W. Fairchild, 32, lecturer in the department of business and economics at Illinois Institute of Technology, has been appointed registrar, it was announced today by Clarence E. Deakins, dean of students.

He is replacing John P. Makielski who has been named assistant to the administrative engineer at Bendix Aircraft corporation in South Bend, Ind.

A graduate of Shorewood high school, Milwaukee, Fairchild received a bachelor's degree in industrial psychology at Northwestern university in June of 1941. He is now completing work for a master's degree in sociology and business administration.

Before joining the Illinois Tech staff in September of 1948, he taught in the evening divisions of the University of Chicago and LaSalle Extension university, Chicago.

From 1941 until 1946, he was employed in the personnel department of Western Electric company, Chicago. From 1946 until 1948, he served as partner in the firm of Harrison and Fairchild associates, personnel consultants.

Fairchild, his wife, and their two children -- Patricia Ann, 6, and Michael, 3, -- live at 613 Meadow Dr., Glenview.

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Mailed: February 5, 1951
FOR RELEASE: Immediate

CHICAGO -- After converting an abandoned garage into a modern gamma ray radiographic laboratory, scientists at Armour Research Foundation of Illinois Institute of Technology can take x-ray pctures through eight inches of solid steel.

A radioactive source shielded by 16-30 inches of concrete emits 65 billion gamma rays per second and has a penetration power similar to 1.8 grams of radium which sells for about $20,000 per gram.

An equivalent amount of conventional x-ray equipment might cost as much as $100,000, Dr. Richard C. Humphreys, assistant chairman of the Foundation's physics department, explained.

"With this source, we can detect hidden flaws in metal castings, welds, soldered joints, and also study crystals sensitive to radiation," Dr. Humphreys said.

Technically termed cobalt 60, the radiation source enables physicists to make shadowgrams of subject material on photographic film placed between two sheets of lead. These exposures frequently require up to 48 hours, Humphreys explained.

When not in use, the source is lowered by remote control into a grease pit which contains a lead safe with six-inch walls. In operation, the source is viewed with a periscope from behind a protective wall. Every precaution has been taken to protect staff members from dangerous radioactive rays.

One advantage of the small but powerful source is that it eliminates large amounts of equipment normally required for radiographic work and permits scientists

-more-

to take radiographs from hard-to-reach places such as the inside of a curved pipe, Humphreys said.

Similar equipment is finding widespread quality control use in industry where engineers are making deep x-ray inspections that were formerly impossible due to the amount and cost of the equipment involved.

-whk-

Note to Editors: Picture available upon request.

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Mailed: February 7, 1951
FOR RELEASE: Immediate

CHICAGO -- The recent wave of sub-zero weather was accompanied by the heaviest January dust fall Chicago has witnessed since 1947. During the month, an average of 109 tons descended on every square mile within the city limits.

"January is usually our worst month as far as dust fall is concerned," Maurice Kayner, chief research analytical chemist at Armour Research Foundation of Illinois Institute of Technology, revealed today.

Each month, the Foundation performs a public service by measuring and analyzing the dust at 24 sampling stations for the Chicago smoke inspection and abatement department.

Kayner, who measures and analyzes the dust, blames the unusually heavy January fall on the cold snap which caused individual home owners to burn many extra shovelsful of soft coal.

The following figures, in tons per square mile, reveal the January totals since the survey was started in 1947:

January,	1947...	128.50
"	1948...	82.88
"	1949...	75.00
"	1950...	82.22
"	1951...	109.00

At the Fair Store station, 471 tons fell on unsuspecting pedestrians and nearby buildings. The city's cleanest spot was the area around 62nd and Linder, where only 24.54 tons fell.

Here is the tonnage-fall as recorded at the various collecting stations:

-more-

Jar No.	Address of Station	Ward No.	Tons per Square Mile
1.	The Fair Store	1	471.70
2.	33 N. LaSalle	1	162.46
	Loop Average		317.08
3.	2135 S. Michigan	1	89.58
4.	825 E. 44th	4	186.97
5.	1362 E. 59th	5	128.43
6.	7551 Stony Island	7	139.45
7.	67 W. 113th Place	9	60.96
8.	8858 Marquette	10	106.00
9.	6314 S. Troy	13	57.74
10.	62nd & Linder	13	24.54
11.	7559 Eggleston	17	89.56
12.	1620 W. 99th	19	34.12
13.	3608 Ogden	22	200.85
14.	1500 W. Monroe	26	152.32
15.	5055 Fulton	30	98.59
16.	2940 Cortland	32	89.23
17.	2148 W. Long	36	92.76
18.	3314 Belle Plaine	40	86.58
19.	7350 Pratt	41	40.66
20.	54 W. Hubbard	42	111.77
21.	551 Grant Place	44	93.61
22.	3532 Sheffield	46	121.47
23.	1622 Pratt Blvd.	49	100.17
24.	427 S. LaSalle	1	351.51
25.	2240 W. 37th		84.54
	Average		109.00

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Mailed: February 8, 1951
FOR RELEASE: Immediate

CHICAGO -- Electrochemists at one of the country's largest industrial research centers have established another beachhead in their battle against the harmful effects of corrosion.

A new technique, designed to measure the effects of corrosive solutions, may substantially reduce the nation's annual corrosion costs, estimated at $5.5 billion, or about $37 per person.

Developed at Armour Research Foundation of Illinois Institute of Technology, under the sponsorship of the National Advisory Committee for Aeronautics, the new method is similar to television scanning and can be used for detection, study, recording, and analysis of corrosion phenomena.

Dr. Howard T. Francis, supervisor of electrochemistry at the Foundation, explained that scientists can now measure corrosion as it takes place, regardless of the metal involved.

Corrosion, of which rust is an example, is caused by thousands of local cells similar to microscopic flashlight batteries. The electrochemical cells are formed by corrosive chemicals and the metal itself.

By studying the action of these tiny, unwanted electrical cells, electrochemists can learn more of the fundamental facts regarding corrosion.

"The laboratory sample on which corrosion occurs, is a metal cylinder. This cylinder is dipped in some corrosive solution such as sea water, rotated

-more-

several hundred times a minute, and scanned with a stationary probe electrode," Dr. Francis explained.

The probe electrode, which is a plastic arm containing 11 silver wires, is placed about .02" away from the submerged cylinder. It picks up the minute electrical currents caused by corrosion and enables scientists to measure and study the process.

"These tiny currents can be amplified and viewed on an oscilloscope screen or photographed for later analysis," Francis said.

One advantage of this method is that it permits easier and faster study of the entire surface area of a corrosion sample.

The new technique can be used for investigations of cathodic protection, corrosion inhibitors, stress corrosion, and in fundamental corrosion studies.

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Mailed: February 8, 1951
FOR RELEASE: Immediate

CHICAGO -- To meet the country's intensified need for engineers, a joint program of study by Roosevelt College and Illinois Institute of Technology was announced today by Edward J. Sparling and Henry T. Heald, respective presidents of the two colleges.

The program leads to two degrees in five years and includes courses in arts, sciences and engineering. It will lead to the degrees of bachelor of arts or bachelor of science from Roosevelt, and bachelor of science in a designated field of engineering from Illinois Tech.

The plan provides for a three-year pre-engineering course of study in the school of arts and sciences of Roosevelt, followed by two years of additional training in engineering at Illinois Tech.

The country's defense needs for trained engineers with a broad background of general knowledge led to the inauguration of the program by both colleges.

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Mailed: February 9, 1951
FOR RELEASE: Immediate

CHICAGO -- The tremendous forces that created Mother Earth's treasure of precious gems and the role played by these "sparklers" in the history of mankind will be the subject of a talk February 16 at the Chicago section meeting of the American Ceramic Society.

John Perry Skinner, assistant manager of program development at Armour Research Foundation of Illinois Institute of Technology, will speak on "Stones, Stars, and Science" before a ladies night gathering of the society at the Chicago Enamelers' Club.

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Mailed: February 9, 1951
FOR RELEASE: Immediate

CHICAGO -- Two scientific symposia will convene June 11-16 at the Sheraton hotel here. Both will be three-day meetings sponsored by Armour Research Foundation of Illinois Institute of Technology.

A Symposium on Analysis and Metallography of Titanium will meet June 11-13. There will be panel sessions on instrumental analysis, gases in titanium, chemical methods, and metallography.

This will be the first comprehensive symposium on recent advances in titanium analysis. Viewpoints of the manufacturer, user, and research scientist will be stressed.

Program chairman for the titanium symposium is Dr. Julian Glasser, research metallurgist at the Foundation.

A Symposium on Surfaces, the fourth annual affair of its kind to be sponsored by the Foundation, will meet June 14-16. The geometry and structure of organic and inorganic surfaces, including biological, will be discussed.

The June 14-16 sessions will follow the informal pattern set last year. A chairman and board of experts will preside at panel sessions, and audience participation in discussions will be encouraged.

Program chairmen for the surfaces symposium are Foundation staff members Charles F. Tufts, associate physicist, and Dr. Walter C. McCrone, supervisor of analytical chemistry. A display of instruments is planned.

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SPECIAL TO STEEL, FEBRUARY 14, 1951

RADIOGRAPHIC LABORATORY

In constructing the new gamma ray radiographic laboratory, the Foundation took advantage of the geometry of a large truck garage which had a grease pit located in the center of the floor.

In this pit, which was a "natural" for the storage of radioactive material, was placed a lead safe containing one curie of cobalt-60. The cobalt, furnished by the Oak Ridge National Laboratories, is sealed in a brass cylinder one-half inch in diameter and three-quarters of an inch long.

Three pieces of cobalt wire, contained in the cylinder, are each one-eighth of an inch in diameter and one-quarter of an inch long. Individually, the sections have an activity of about 350 millicuries.

The brass cylinder has been placed in a thin aluminum shell which has a steel ring attached to the upper end. A conical plug in the lead safe has a magnet on the lower end to which the source, in its aluminum container, is attached magnetically.

This assembly, which facilitates easy handling, may be removed at any time and reattached without the use of screws, bolts, or other mechanical means.

The source is raised from from the lead safe at the bottom of the grease pit to a point about three feet above the garage floor by a light hoist operated electrically from behind protective shielding. Microswitches are preset to position the source and to indicate by warning lights that the source is out of its container and that a dangerous condition exists in the source room.

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Safety for personnel working with the source is provided by the judicious use of protective time factors, distance, and concrete shielding, thus preventing serious overexposure to the radiation.

After setting up the material to be radiographed, the operator retires behind the protective wall (see accompanying diagram) which was made from commercially available, solid concrete blocks. These blocks are 8"x8"x16" and were laid up with mortar. Each block weighs 65 pounds and the concrete has a density of 1.6.

From behind the protective wall, the operator throws a switch that actuates the raising mechanism and observes the positioning of the source through a periscope which permits him to look over the wall. Monitors indicate the level of radiation at all times in the operator's room, a level which is held to well below 50 milliroentgens per eight-hour day.

After the exposure is complete, the source is lowered into the pit and the resulting films are developed.

It is planned to use the space on the safe side of the wall as a "hot" laboratory for handling radioactive materials prior to using them in various types of research. In this way, the "cold" area, where precise measurements are made, will not become contaminated by the handling of these materials in the make-ready stages of the work.

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Mailed: February 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Frank Rabey, 18, 23 Oak st., (Binghamton, N.Y.) has been awarded a scholarship to Illinois Institute of Technology, Chicago, Ill.

Rabey, a graduate of Binghamton high school, plans to major in biology.

The scholarship covers tuition and fees for one year, beginning with the current semester. Awards were based on the results of competitive examinations, high school grades, and personal interviews.

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Mailed: February 16, 1951

FOR RELEASE: Immediate

CHICAGO -- "France and Germany: Foes Yesterday, Partners Tomorrow?," will be discussed at 1 p.m., Tuesday (Feb. 20) by Prof. Robert Lacour-Gayet before students at Illinois Institute of Technology.

Dr. Lacour-Gayet is official lecturer for the Federation de l'Alliance Francaise aux Etats-Unis. This is his first appearance at Illinois Tech.

He is on leave of absence from his post as inspector general of finances of France to teach at St. John's University, Brooklyn, N.Y. He also lectures at New York University on the history of French civilization.

He is author of Les Grandes Crises de l'Histoire de France, and co-author with Jacques Lacour-Gayet of De Platon a la Terreur.

The lecture will be presented in the college's Metallurgical and Chemical Engineering building, 10 W. 33rd st.

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Mailed: February 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Charles E. Lundin, 25, of 5043 Drexel avenue, an evening graduate student in metallurgical engineering at Illinois Institute of Technology, has been awarded second prize in a national contest of student papers sponsored by the American Institute of Mining and Metallurgical Engineers.

His technical paper was a study of "Corrosion Fatigue of Alloy Steels."

Lundin is employed as an assistant metallurgist at Armour Research Foundation of Illinois Institute of Technology.

A native of Denver, he attended high school there, and received his bachelor of science degree in metallurgical engineering in 1949 from Colorado School of Mines. He served three years in the Navy as an aviation electronics technician's mate.

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Mailed: February 19, 1951
FOR RELEASE: Immediate

CHICAGO -- Thirteen Chicago area high school graduates have been awarded scholarships at Illinois Institute of Technology, Clarence E. Deakins, dean of students, announced today.

Awards cover tuition and fees for one year, beginning with the current semester.

Competitive examination results, high school grades, and personal interviews were used as a basis for granting the scholarships.

Winners (listed with age, address, high school, and intended college major) are:

Henry W. Babel, 19, 1663 Orchard st., Lane Tech, mechanical engineering; Martin F. Brickner, 17, 1151 W. 65th st., Parker, chemical engineering; Richard M. Deveirman, 17, 4337 Dayton st., Senn, chemical engineering.

Jerome E. Hubacek, 17, 3206 W. 65th pl., Lindblom, chemical engineering; John E. Jedlicka, 17, 2732 S. Avers ave., Farragut, electrical engineering; Peter P. Kania, 17, 4808 S. Ada st., Tilden, chemical engineering.

Owen L. Kruger, 18, 8800 S. Loomis st., Calumet, chemical engineering; Donald B. Leftwich, 20, 7923 S. Essex ave., Englewood, chemistry; Kenneth S. Mendelson, 17, 8909 Commercial ave., Bowen, electrical engineering.

Norman Serota, 18, 958 Hudson ave., Wells, chemical engineering; Franklin S. Weinstein, 17, 4831 N. Avers ave., Roosevelt, electrical engineering; Marilyn M. Call, 17, 1012 W. 104th pl., Fenger, home economics; Joan F. Graper, 17, 9430 S. Loomis st., Morgan Park, home economics.

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Mailed: February 19, 1951
FOR RELEASE: Immediate

Note to Editors:

Here is a reprint of a short article in the January 1951 issue of The Quill, Sigma Delta Chi publication.

I did this piece to show something of the organization, activity, and philosophy of the public relations department which serves Illinois Institute of Technology (a college) and Armour Research Foundation of Illinois Institute of Technology (a scientific research organization).

I'm sending it along because I thought you might like to scan it quickly and get an idea of our approach. It's short. Obviously, you can read it or toss it away, or both, as you wish.

My original title, altered by the editor, was "We Have Deadlines, Too."

-- Jim Armsey

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Mailed: February 20, 1951
FOR RELEASE: Immediate

CHICAGO -- Clarence Buckingham Mitchell, research photographic adviser at the Art Institute of Chicago, has been named photographic adviser at Armour Research Foundation of Illinois Institute of Technology.

Mitchell's appointment was announced today by Dr. Haldon A. Leedy, director of the Foundation.

In his new position, Mitchell is helping set up a modern color photographic laboratory. He will develop color transparencies in ektachrome and ektacolor, new simplified processes for developing color film.

The new lab will be the second in the city where these processes are used. Mitchell will work with Norman A. Bartley, supervisor of reproduction services.

Mitchell first aided the Foundation in 1940, when he helped set up the color photographic laboratory in the physics department.

Since taking up photography 15 years ago as a hobby, Mitchell has exhibited prints in Paris, New York, and London, and was elected an associate member of the Royal Photographic society. His color prints of exhibits in the Field Museum appeared in the book, Colorama, published in 1942. He also did medical color work at Northwestern university.

Mitchell, who lives at the Drake hotel, will continue his work at the Art Institute.

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Mailed: February 20, 1951
FOR RELEASE: Immediate

CHICAGO -- A Marie Blanke scholarship for women will be founded at an art show and tea Sunday (March 4) in the Student Union of Illinois Institute of Technology.

The tea will honor Miss Blanke, Chicago artist and former professor at Lewis Institute and Illinois Tech. Some of her paintings will be exhibited.

The tea is sponsored by alumnae and women students who will participate in a program of choral music and fashions. Mrs. Francis Frost, Jr., 3655 W. Belleplaine ave., alumnae chairman, is in charge.

Miss Blanke taught art on the college campus for almost 50 years, retiring in 1943 as assistant professor of applied art. She conducted classes in drawing, design, interior decorating, and clothing design for the home economics department.

She was the recipient of many honors while teaching at the college. The Art Institute awarded her the Butler Purchase Prize, and she received the Rosenwald Purchase Prize, which resulted in one of her paintings being hung in a Chicago school. Another painting hangs in a Glencoe public school.

Several paintings have been sold to the Illinois Federation of Woman's Clubs for gifts to schools and to the Chicago Commission for the Encouragement of Local Art.

Member of Mrs. Frost's committee in charge of the tea are: Mrs. Robert T. Williams, 223 Washington blvd., Oak Park; Miss Edna B. Clark, 1704 N. Newland ave.; Mrs. Clay Knoerle, 2516 N. Drake ave.; Mrs. Marshall Kerwin, 7812 S.

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Marshfield ave.; Miss Edna Lois Gaul, 5410 Wayne ave.; Mrs. Leonard Karvel, 4616 W. Jackson blvd.; Mrs. Robert S. Colville, 4901 N. Paulina; Mrs. Charles H. Reinhardt, Jr., 115 Merrill ave., Park Ridge.

Others are: Miss Jeanette R. MacLuckie, 650 Parsons ave., Des Plaines; Mrs. Russell K. Komen, 5522 Farragut ave.; Miss Irene Radvilas, 1024 W. 84th st.; Miss Eleanor R. Pratscher, 1844 Dayton st.; Miss Ursula Lier, 1033 N. Menard ave.; Mrs. Francis L. Harwood, 806 Monticello ave.; Mrs. Joseph A. Bates, 5437 W. Van Buren st.; Mrs. R. S. Wilson, 460 Washington blvd., Oak Park.

Others: Mrs. Joseph Dunn, 2200 W. Walton st.; Mrs. David Weissman, 126 S. Central ave.; Mrs. Besshart W. Cole, 6131 St. Lawrence ave.; Mrs. Joseph H. Reynolds, Jr., 7106 Stewart ave.; Mrs. P. N. Dotzenroth, 2112 W. Farwell ave.; Miss Joanne Nicholas, 3145 W. Franklin blvd.; Miss Maureen A. Boyle, 7931 Champlain ave.; Miss Lorraine V. Rusak, 420 Wrightwood ave.

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Mailed: February 20, 1951
FOR RELEASE: Immediate

CHICAGO -- Wayne R. Loutensock, son of Mr. and Mrs. Fred W. Loutensock, 1910 Pennsylvania ave., West Sacramento, entered Illinois Institute of Technology early this month (February).

He is enrolled as a third semester student in electrical engineering.

Loutensock graduated from Woodland high school, Woodland, Calif. in June, 1944.

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Mailed: February 20, 1951
FOR RELEASE: Immediate

CHICAGO -- J. P. Kotleski, 1208 West 2nd st., Ashland, Wisc., entered Illinois Institute of Technology, Chicago, early this month (February).

He is enrolled as a fifth semester student, majoring in industrial psychology.

Kotleski is a graduate of De Padua high school.

-pap-

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Mailed: February 20, 1951
FOR RELEASE: Immediate

CHICAGO -- Melvin E. Alhorn, son of Mr. and Mrs. Henry W. Alhorn, RR #1, Chapin, Ill., entered Illinois Institute of Technology, Chicago, early this month (February).

He is enrolled as a fourth semester student, majoring in electrical engineering.

Alhorn graduated from Meredosia Community high school in 1945.

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Mailed: February 20, 1951
FOR RELEASE: Immediate

CHICAGO -- Dorothy Jean Beck, daughter of Mr. and Mrs. Robert Beck, RR #3, Mauston, Wisc., entered Illinois Institute of Technology as a freshman early this month (February).

She plans to major in food engineering.

Miss Beck graduated from Mauston high school in June.

-pep-

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Mailed: February 20, 1951
FOR RELEASE: Immediate

CHICAGO -- Thirty southwest side students enrolled for the spring semester which began Monday (February 12) at Illinois Institute of Technology, C. E. Deakins, dean of students, announced today.

Enrollees (listed with address, class, major course of study, and high school from which they graduated) are:

James J. Archer, 1553 W. 91st st., metallurgical engineering, St. Rita, June 1950; Ronald J. Balesh, 6501 S. Troy st., biology, Lindblom, August 1949; John E. Blair, 2215 Davis st., Blue Island, mechanical engineering, Calumet, June 1934; Martin F. Brickner, 1151 W. 65th st., chemical engineering, Parker, January 1951; Robert M. Buckley, 6410 S. Peoria ave., industrial engineering, Parker, June 1946; Marilyn M. Call, 1012 W. 104th pl., home economics, Fenger, January 1951; Donald R. Delaney, 2728 W. 38th pl., electrical engineering, Leo, June 1948.

Harold L. Dykstra, 10142 Normal ave., civil engineering, Chicago Vocational, June 1946; John Gabut, 6609 S. California ave., metallurgical engineering, Calumet, June 1945; Tony J. Golob, 6517 S. Karlov ave., civil engineering, Lindblom, January 1951; Joan F. Graper, 9430 S. Loomis st., home economics, Morgan Park, January 1951; Jerome E. Hubacek, 3206 W. 65th pl., chemical engineering, Lindblom, January 1951; Peter P. Kania, 4808 S. Ada st., civil engineering, Tilden Tech, January 1951; David L. Kerznaric, 2415 W. 46th st., civil engineering, Kelly, January 1951; Owen L. Kruger, 8800 S. Loomis st., chemical engineering, Calumet January 1951.

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Frederick J. Lam, 9431 Parnell ave., civil engineering, Calumet, January 1951; Charles J. Malicki, 5122 S. Campbell ave., industrial engineering, Tilden Tech, June 1948; Robert I. Mathewson, 12620 Wallace st., metallurgical engineering, Chicago Vocational, January 1949; David L. Cdom, 3306 Sangamon st., Steger, chemical engineering, Bloom, June 1948; William E. Palmquist, 1734 W. 80th st., mechanical engineering, Calumet, January 1951; Donald V. Pastel, 4157 S. Western ave., electrical engineering, Tilden Tech, June 1944; Donald E. Polacek, 11419 S. Fairfield ave., mechanical engineering, Morgan Park, January 1951; William C. Radtke, 4315 S. Rockwell st., chemical engineering, Luther Institute, January 1951.

Robert Schweizer, 92 Indianwood, Park Forest, mechanical engineering, Bowen, January 1950; Stanley F. Sternasty, 3451 W. 54th st., metallurgical engineering, Gage Park, January 1951; Edward C. Tabbert, 1324 W. 73rd st., political and social science, Calumet, June 1948; Henry H. Tiefenbach, 3648 S. Leavitt st., mechanical engineering, Harrison Tech., June 1946; Roger A. Unterberg, 8155 S. Fairfield ave., chemistry, Calumet, January 1951; Richard A. Vandekieft, 7636 S. Sangamon st., mechanical engineering, Chicago Christian, June 1949; Clive T. Wilson, 11401 Union ave., metallurgical engineering, Fenger, January 1951.

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Mailed: February 20, 1951
FOR RELEASE: Immediate

Twenty-four south side students enrolled for the spring semester which began Monday (February 12) at Illinois Institute of Technology, C. E. Deakins, dean of students, announced today.

Enrollees (listed with address, class, major course of study, and high school from which they graduated) are:

Walter S. Bartky, 5451 Hyde Park blvd., electrical engineering, University of Chicago high school, February 1951; George S. Bouboutsis, 1553 E. 63rd st., biology, Lane Tech, June 1948; Marion H. Clay, 3013 Prairie ave., civil engineering, Tilden Tech, January 1951; Edwin P. Ehart, 1430 E. 69th pl., chemical engineering, Hyde Park, June 1946; Abdelaziz Farah, 6106 Blackstone ave., electrical engineering, Hyde Park, January 1951; Edward F. Fischer, 10839 Avenue H, electrical engineering, Bowen, January 1951; Peter L. Gershanov, 6750 S. Ridgeland ave., mechanical engineering, Hyde Park, January 1951; William J. Hoeger, 7813 S. Kimbark ave., metallurgical engineering, Hirsch, January 1951.

John J. Johnson, 10015 Harnew road, Oak Lawn, mechanical engineering, Hirsch, January 1936; Earl N. Jones, 4018 Drummond st., East Chicago, Indiana, mathematics, Washington, June 1945; Donald B. Leftwich, 7923 Essex ave., chemistry, Englewood, January 1951; Charles A. Mazzoni, 10352 Emerald ave., chemistry, St. Rita, June 1947; Kenneth S. Mendelson, 8909 Commercial ave., electrical engineering, Bowen, January 1951; Louis Nardi, 10238 Bensley ave., electrical engineering, Bowen, January 1950; Alfred H. Norlin, 10802 Bensley ave., mechanical engineering, Calumet, June 1950.

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George W. Oldfield, 503 W. 26th st., mechanical engineering, Tilden Tech, June 1948; Harry J. Plesha, 9634 Avenue "L", electrical engineering, Bowen, June 1944; John F. Rayfield, 7448 S. Calumet ave., mechanical engineering, Hirsch, June 1950; Richard F. Saunders, 8551 Marquette road, chemical engineering, St. Leo, June 1948; Harry H. Wada, 5436 Kenwood ave., business and economics, North Platte, (Nebraska) high school, May 1937; John B. White, 7831 Euclid ave., chemical engineering, South Shore, January 1951; John H. Wilbrot, 8601 Saginaw ave., chemical engineering, Bowen, June 1948; Joseph M. Williams, 8200 Kimbark ave., mechanical engineering, Hirsch, January 1951.

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Mailed: February 20, 1951
FOR RELEASE: Immediate

CHICAGO -- Ten north side students enrolled for the spring semester which began Monday (February 12) at Illinois Institute of Technology, C. E. Deakins, dean of students, announced today.

Enrollees (listed with address, class, major course of study, and high school from which they graduated) are:

John H. Bailey, 4444 N. Richmond st., industrial engineering, Trinidad high school, Trinidad, Colorado, 1939; Richard M. Deveirman, 4337 Dayton st., chemical engineering, Senn, January 1951; Edward J. Duff, 4245 N. Broadway, physics, Senn, 1945; William Hyman, 2322 Commonwealth ave., mechanical engineering, Manley, January 1935; William Limpinsel, 834 Fullerton ave., industrial engineering, Lane Tech, January 1936.

George A. Olson, 2507 Cullom ave., electrical engineering, Lane Tech, June 1948; Richard B. Roetter, 4535 N. Sacramento ave., mathematics, Parker, June 1950; Norman Serota, 958 Hudson ave., chemical engineering, Wells, January 1951; June W. Smith, 2817 Mildred ave., home economics, Waller, January 1951; Donald A. Staub, 3654 N. Oakley ave., industrial engineering, Lane Tech, January 1951; Gerald F. Unverzagt, 4715 N. Sacramento ave., mechanical engineering, Marmion Military Academy, Aurora, June 1949.

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Mailed: February 20, 1951
FOR RELEASE: Immediate

CHICAGO -- Twenty-eight northwest side students enrolled for the spring semester which began Monday (February 12) at Illinois Institute of Technology, C. E. Deakins, dean of students, announced today.

Enrollees (listed with address, class, major course of study, and high school from which they graduated) are:

Henry W. Babel, 1663 Orchard st., mechanical engineering, Lane Tech, January 1951; Irwin Berman, 4556 N. Central Park ave., civil engineering, Roosevelt, June 1947; Robert V. Christensen, 5915 Henderson st., mechanical engineering, Lane Tech, January 1951; Henry E. Claeson, 5440 N. Luna ave., electrical engineering, Lane Tech, June 1948; Jack W. Cole, 3007 N. Kilpatrick ave., civil engineering, Lane Tech, June 1939; William V. Cyplick, 3238 N. Newcastle ave., electrical engineering, Steinmetz, June 1948; Edward J. Dumelle, 3355 Eastwood ave., industrial engineering, Lane Tech, June 1940.

Henry J. Grimme, 4142 N. Mason ave., electrical engineering, Schurz, January 1951; Leonard E. Guth, 4919 N. St. Louis ave., industrial engineering, Lane Tech, January 1951; Howard J. Humecki, 4046 W. Argyle st., chemistry, Von Stueben, June 1948; Torben N. Kjarsgaard, 2510 Logan blvd., electrical engineering, Kelvyn Park, January 1945; Raymond Kopetz, 3405 N. Octavia ave., electrical engineering, Schurz, January 1949; Harry Krynski, 4150 Cicero ave., electrical engineering, June 1946; Frank J. Lang, 2418 N. Central Park ave., mechanical engineering, St. Mel, June 1950.

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Fred I. Lieberman, 1953 N. Monticello ave., mechanical engineering, University of Chicago high school, August 1946; George F. Marcus, 3420 N. Lowell ave., industrial engineering, Schurz, January 1949; Norman G. Marshall, 2820 N. Major ave., chemical engineering, Steinmetz, January 1951; Richard Mistarz, 6957 W. Balmoral ave., industrial engineering, Lane Tech, June 1948; Robert G. Moss, 4906 N. Ridgeway ave., metallurgical engineering, Roosevelt, January 1951; Boleslaw J. Odachowski, 5223 W. Byron, civil engineering, Holy Trinity, June 1947.

Walter W. Petzel, 3636 N. Bell ave., electrical engineering, Lane Tech, January 1951; Ronald E. Sieling, 1624 N. Nordica ave., mechanical engineering, Lane Tech, January 1951; Ted A. Swanson, 5851 Roscoe st., electrical engineering, Steinmetz, June 1949; Hans C. Von Helms, 3919 Nora ave., electrical engineering, Lane Tech, January 1949; Marshall H. Walker, Norwood Park, electrical engineering, Senn, June 1933; Franklin S. Weinstein, 4831 N. Avers ave., electrical engineering, Roosevelt, January 1951; Norman E. Wideborg, 4851 N. Keeler ave., chemistry, Lane Tech, January 1951; Melvin Wolf, 4955 N. Sawyer ave., mechanical engineering, Von Stueben, January 1951.

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Mailed: February 20, 1951
FOR RELEASE: Immediate

CHICAGO -- Twenty-three west side students enrolled for the spring semester which began Monday (February 12) at Illinois Institute of Technology, C. E. Deakins, dean of students, announced today.

Enrollees (listed with address, class, major course of study, and high school from which they graduated) are:

Roland J. Armani, 1229 S. 49th court, Cicero, chemical engineering, St. Philip, June 1948; Paul E. Bardwell, 5709 W. Ohio st., mechanical engineering, St. Philip, June 1948; Howard E. Chana, 1507 S. Oak Park ave., Berwyn, mechanical engineering, Morton, June 1948; Walter C. Diener, 307 N. Third ave., Maywood, mechanical engineering, Proviso, 1950; Walter B. Gray, 938 Wisconsin ave., Oak Park, civil engineering, Oak Park, January 1951; Gary Harris, 4342 W. Washington blvd., electrical engineering, Austin, January 1951; John E. Jedlicka, 2732 S. Avers ave., electrical engineering, Farragut, January 1951.

Melvin Kahn, 1419 S. Kedvale ave., electrical engineering, Manley, June 1940; Imants V. Kiusalas, 4015 W. Washington blvd., civil engineering, Karlis Skalbe, Fischbach, Germany, June 1946; Edward J. Kohlegk, 3047 S. Lawndale ave., chemistry, Farragut, January 1951; Fred C. Kosmach, 2023 W. 22nd pl., civil engineering, Phillips high school, Phillips, Wisconsin, June 1948; Eugene J. Krob, 2823 S. Sawyer ave., chemistry, Harrison Tech, June 1948; Edmund J. Krygier, 848 N. Oakley blvd., chemical engineering, Crane Tech, January 1947; Albert F. Misialek, 1643 W. 33rd st., architecture, St. Patrick Academy, June 1949.

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Haiikas Mnatzaganian, 3255 S. Austin ave., Cicero, civil engineering, Alborz high school, Tehran, Iran, June 1946; James E. Price, 5309 W. Madison st., civil engineering, Austin, January 1949; Bohumil J. Ruznicka, 6324 W. Cermak road, Berwyn, electrical engineering, Morton, January 1951; Burton L. Samuels, 1344 Independence blvd., architecture, Marshall, January 1951; Walter F. Sobek, 2643 S. Kostner ave., civil engineering, Farragut, January 1951; Doris A. Sposta, 3421 S. Aberdeen st., home economics, Englewood, June 1948.

Ricardo R. Stone, 3191 S. Green st., chemistry, Cass Tech, Detroit; William Travis, 29 W. Harrison st., Oak Park, chemical engineering, Austin, January 1951; Richard W. Wesolowki, Adelia st., Downers Grove, mechanical engineering, Downers Grove, June 1950.

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Mailed: February 20, 1951
FOR RELEASE: Immediate

CHICAGO -- Dr. E. H. Schulz, chairman of the electrical engineering department at Armour Research Foundation of Illinois Institute of Technology, has been named 1951 president of the National Electronics Conference, Inc. Dr. W. G. Dow, electrical engineering department, University of Michigan, was named chairman of the board.

The seventh annual conference will be held October 22, 23, and 24 at the Edgewater Beach hotel in Chicago.

Registration totaled 2,367 at the 1950 conference last September. Sixty-one papers were presented at 18 sessions, many of which dealt with industrial applications of electronics. Sixty exhibitors occupied 90 booths at the conference.

The 1950 proceedings will be available shortly after March 1.

Other officers who will plan and present the 1951 conference are:

Executive vice president--J. A. M. Lyon, northwestern Technological Institute, Evanston, Ill.

Executive secretary--Karl Kramer, Jensen Radio Company, Chicago.

Recording secretary--J. H. McCreary, Automatic Electric Company, Chicago.

Treasurer--C. E. Skroder, electrical engineering department, University of Illinois, Urbana, Ill.

Arrangements committee chairman--S. R. Collis, Illinois Bell Telephone Company, Chicago.

Exhibits committee chairman--R. M. Soria, American Phenolic Corporation, Cicero, Ill.

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Housing committee chairman--R. R. Jenness, Northwestern Technological Institute, Evanston, Ill.

Proceedings committee chairman--C. E. Barthel, Jr., Armour Research Foundation of Illinois Institute of Technology, Chicago.

Program committee chairman--J. D. Ryder, electrical engineering department, University of Illinois, Urbana.

Publicity committee chairman--J.W. Armsey, Illinois Institute of Technology, Chicago.

The conference is sponsored by the American Institute of Electrical Engineers, Institute of Radio Engineers, Illinois Institute of Technology, Northwestern University, and the University of Illinois, with participation by the University of Wisconsin and the Society of Motion Picture and Television Engineers.

-jwa-

February 21, 1951

SPECIAL TO AP NEWSPAPERS

CHICAGO--Scientific and social progress is usually a relation of small facts, ferreted and cataloged, until, like pieces of a puzzle, a new "picture" becomes clear.

World-shaping discoveries of Edisons, Wrights, Fultons, Marconis, and Pasteurs are exceptions to the rule of patient observation of little things which make up the usual pattern of invention and progress.

The hard labor of scientific invention consists of learning all the facts--often a tedious, trying, sweaty process.

To uncover and correlate those little bits and pieces of information, scientists take strange and unusual paths.

At Illinois Institute of Technology progress is being recorded because an engineer broke window panes, because a physicist stares into space, because a mechanical engineer sought a sound-proof padded cell, because a psychologist taught a cat to walk.

Dr. Joanne Starr Malkus, assistant professor of physics, spent pleasant summer days resting against a hill-top tree on the Massachusetts coast. She patiently studied the formation and growth of fluffy cumulus clouds over the ocean.

Recently the U. S. Navy awarded Dr. Malkus a research grant of $5,000 to gain information of the early stages of cloud formation and relate the study to an analysis of violent storms, drafts, and gusts encountered by aircraft in later stages of the cloud formation.

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Dr. Phil S. Shurrager's cat was not an ordinary one. The cat was a paraplegic. Its spinal column had been severed, and the spinal communication from the brain to the hind legs was destroyed.

Shurrager, chairman of the Institute's psychology department, undertook the problem of teaching the cat to walk to determine the extent of learning capabilities in the nervous system itself.

Dr. Wilson F. Green, professor of mechanical engineering, developed a sound-proof room to determine how noisy noise actually is. He has studied engines ranging from a 20-pound, one horsepower lawn mower to a 100-ton, 2,000 h.p. diesel. In most cases he has been able to isolate and study the noise of each working part.

The result of Green's studies may result in a reduction of nerve-wracking, head-splitting noises by as much as 50 per cent.

John J. Ahern, chairman of the fire protection and safety engineering department, is the professor who gave way to the small-boy desire to smash plate glass windows.

The object was to study what happens when glass is broken so that precautions can be taken to prevent damage and injury from flying glass in a fire. One side of the glass was heated to a temperature of 1000 degrees Fahrenheit, and a variety of implements, techniques, and force were used.

-jeg-

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Mailed: February 22, 1951
FOR RELEASE: Immediate

CHICAGO -- Ten abstract paintings and line drawings of figures by Norman Laliberte will be on exhibit at Etc., 17 E. Grand ave., March 3 through 30.

Laliberte is a student at the Institute of Design, now a department of Illinois Institute of Technology. He is majoring in visual design.

In January, some of Laliberte's paintings were shown at Leonard Linn, Inc., Winnetka, Ill.. Last year he had exhibits at Tranquille Library, Montreal, Canada, and at the Pacer shop, Atlanta, Ga.

-pap-

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Mailed: February 22, 1951
FOR RELEASE: Immediate

CHICAGO -- Norman Laliberte, 3981 Drolet, Montreal, will have an exhibit of ten abstract paintings and line drawings at Etc., 17 E. Grand ave., Chicago, Ill., March 3 through 30.

Laliberte is a student at the Institute of Design in Chicago, a department of Illinois Institute of Technology.

In January, some of his paintings were shown at Leonard Linn, Inc., Winnetka, Ill. Last year he had exhibits at Tranquille Library, Montreal, and at the Pacer shop, Atlanta, Ga.

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Mailed: February 22, 1951
FOR RELEASE: Immediate

CHICAGO -- James Stebbins, 21, 2541 Walnut st., Blue Island, has been appointed feature editor of Tech News, Illinois Institute of Technology's weekly student newspaper, for the spring semester.

Stebbins, a junior majoring in chemistry, graduated from St. Leo high school. He has been copy editor of the paper and is also associate editor of Zest, student liberary magazine.

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Mailed: February 22, 1951
FOR RELEASE: Immediate

CHICAGO -- Leonard Druian, 20, 4057 W. 16th st., has been appointed sports editor of Tech News, Illinois Institute of Technology's weekly student newspaper, for the spring semester.

Druian, a senior majoring in civil engineering, graduated from Crane Tech in 1947. He is captain of the Institute's rifle team and a member of the American Society of Civil Engineers.

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Mailed: February 22, 1951
FOR RELEASE: Immediate

CHICAGO -- Richard Tedrick, 19, 5607 N. Clark st., has been appointed to the student publications board of Illinois Institute of Technology for the spring semester.

Tedrick, a junior majoring in mechanical engineering, graduated from Senn high school in 1948. He is treasurer of his class and a member of the American Society of Mechanical Engineers.

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Mailed: February 22, 1951
FOR RELEASE: Immediate

CHICAGO -- Robert Zevitz, 21, 311 N. 28th ave., Omaha, Neb., has been appointed chairman of the student publications board of Illinois Institute of Technology for the spring semester.

Zevitz, a senior majoring in mechanical engineering, graduated from Omaha Central high school in 1947. He was copy editor of the Institute's student newspaper and is a pitcher for the college's baseball team.

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Mailed: February 22, 1951
FOR RELEASE: Immediate

CHICAGO -- Harry Ashbridge, 21, 15 E. 21st st., Chester, Penn., has been appointed to the student publications board of Illinois Institute of Technology for the spring semester.

Ashbridge, a junior majoring in electrical engineering, graduated from Chester high school in 1948. He is a member of Triangle national social fraternity.

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Mailed: February 22, 1951
FOR RELEASE: Immediate

CHICAGO -- Lambert Neighbour, 30, 7918 Vernon ave., has been appointed to the student publications board of Illinois Institute of Technology for the spring semester.

Neighbour, a senior in electrical engineering, graduated from Calumet high school in 1938. He is a member of the American Institute of Electrical Engineers, the Western Society of Engineers, and president of Sigma Phi Epsilon, national social fraternity.

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Mailed: February 22, 1951
FOR RELEASE: Memo

Memo to City Desks and Photo Desks:

The annual meeting of the board of directors of the Ada S. McKinley Community House, 3201 South Wabash ave., will be held at 6 p.m., Tuesday, February 27, at the student union lounge of Illinois Institute of Technology at 33rd and Federal sts.

Judge Wendell E. Green, first Negro appointed to the Cook county circuit court, will be the main speaker. His talk will begin shortly after 7 p.m.

William R. Hammond, executive director of the community house, will review the year's activities.

The McKinley community house board is bi-racial, including prominent members of the Negro community and seven Illinois Tech staff members.

Best time for a photograph is soon after 7 p.m.

Both reporters and photographers are invited. Tickets to the dinner are available.

-- Jim Armsey

s from

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Mailed: February 22, 1951
FOR RELEASE: Immediate

CHICAGO -- Judge Wendell E. Green, first Negro named circuit judge of Cook county, will speak at 6 p.m., Tuesday (Feb. 27) at the annual meeting of the board of directors of the Ada S. McKinley Community house, 3201 South Wabash ave.

The dinner meeting will be held in the student union lounge of Illinois Institute of Technology, 33rd and Federal sts. C. Francis Stradford, president of the board, will preside.

William R. Hammond, executive director of the community house, will outline the year's accomplishments, including a report on the proposed new center at 34th st. and Michigan ave., which will be built when sufficient funds are accumulated.

Hammond said the community organization spent $33,968 this year to serve 21,000 persons of all age groups. In 1949 only 2,000 children participated in the program of the center.

Formerly the South Side Settlement House, the community center was reorganized, revitalized, and renamed in honor of Mrs. McKinley. Seven members of the Illinois Tech staff joined the board, and an expanded program was undertaken.

The community house is now a participating agency of the Community Fund and a member of the Welfare Council of Metropolitan Chicago. This year it merged with the Good Neighbor Society, another south side agency.

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The community house is primarily an educational institution, with classes in art, dramatics, household arts, millinery, sports, dancing, and literature. Special adult-education classes in reading, writing, and vocational training are also conducted.

Social clubs have been set up for adults, and groups for elderly persons have been organized at the community house, local churches, and at the Mecca apartments.

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Mailed: February 22, 1951
FOR RELEASE: Immediate

CHICAGO -- Five south side students are among the 24 new presidents and vice presidents of social fraternities at Illinois Institute of Technology.

Chosen during the past month to lead the various fraternities for the spring semester were:

Jordan Cole, Beverly Shores, Ind., mechanical engineering '52, vice president, Tau Epsilon Phi; Lambert Neighbour, 7918 Vernon ave., electrical engineering '51, president, Sigma Phi Epsilon; Albert Plys, 13410 Baltimore ave., chemical engineering '51, president, Daedalians; Peter Schutz, 829 E. 46th st., mechanical engineering, '52, vice president, Daedalians; Wayne Weichmann, 7738 S. Prairie ave., electrical engineering '51, vice president, Sigma Phi Epsilon.

-dc-

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Lombard 1810-R

Mailed: February 22, 1951
FOR RELEASE: Immediate

CHICAGO -- Two southwest side students are among the 24 new presidents and vice presidents of social fraternities at Illinois Institute of Technology.

Chosen during the past month to lead the various fraternities for the spring semester are:

Gregory Opelka, 6048 S. Albany ave., electrical engineering '52, president, Delta Tau Delta; James Muarry, 408 Wilcox, Joliet, electrical engineering '51, president, Phi Kappa Sigma.

-dc-

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Mailed: February 22, 1951
FOR RELEASE: Immediate

CHICAGO -- Four north side students are among the 24 new officers of social fraternities at Illinois Institute of Technology. Chosen during the past month to lead the various fraternities for the spring semester were:

Herman Levin, 6649 N. Newgard ave., electrical engineering '52, president, Alpha Epsilon Pi; Robert Miller, 7372 N. Winchester ave., chemical engineering '51, treasurer, Sigma Alpha Mu; William Roberts, 1925 Seward st., Evanston, mechanical engineering '52, vice president, Phi Kappa Sigma; Sherman Roberts, 7606 Bosworth ave., industrial engineering '51, president, Sigma Alpha Mu.

-do-

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Mailed: February 23, 1951
FOR RELEASE: Immediate

CHICAGO -- Three northwest side students are among the 24 presidents and vice presidents of social fraternities at Illinois Institute of Technology.

Chosen during the past month to lead the various fraternities for the spring semester were:

Morris Franks, 121 N. Pine ave., mechanical engineering '51, president, Tau Epsilon Phi; James Gewartowski, 2642 N. Lawndale ave., electrical engineering '52, vice president, Delta Lambda Xi; William Powell, 3848 N. Hamlin ave., civil engineering '51, president, Delta Lambda Xi.

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Mailed: February 23, 1951
FOR RELEASE: Immediate

CHICAGO -- Joseph L. Deibel, son of Mr. and Mrs. J. A. Deibel, 3909 W. Monroe st., has been elected vice president of Triangle Fraternity at Illinois Institute of Technology.

Deibel is a senior, majoring in mechanical engineering. He is a graduate of Austin high school, and attended Wright Junior college before entering Illinois Tech.

-pap-

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Mailed: February 23, 1951
FOR RELEASE: Immediate

CHICAGO -- David Buchner, son of Mr. and Mrs. Anton Buchner, 1114 S. 5th st., St. Charles, has been elected president of Alpha Sigma Phi social fraternity at Illinois Institute of Technology, Chicago.

Buchner, a senior in chemical engineering, is also a member of the American Institute of Chemical Engineering. He graduated from Marmion Military Academy, Aurora, in 1947.

-dc-

vs from

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Mailed: February 23, 1951
FOR RELEASE: Immediate

CHICAGO -- Donald Carlson, son of Mr. and Mrs. C. J. Carlson, 4602 N. 37th st., Omaha, Neb., has been elected vice president of Alpha Sigma Phi, social fraternity at Illinois Institute of Technology, Chicago.

Carlson, a junior in fire protection engineering, is also news editor of the Institute's student newspaper and a member of the fire protection engineering society. He graduated from Omaha Central high school in 1948.

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Mailed: February 23, 1951
FOR RELEASE: Immediate

CHICAGO -- Bert Cohn, ward of Mr. and Mrs. Egon Berg, 445 Fifth st., Aurora, has been elected vice president of Alpha Epsilon Pi social fraternity at Illinois Institute of Technology, Chicago.

Cohn, a junior in fire protection and safety engineering, is also associate editor of the Institute's student newspaper and is secretary-treasurer of Salamander, honorary fire protection and safety engineering society. He graduated from Aurora East high school in 1948.

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Mailed: February 23, 1951
FOR RELEASE: Immediate

CHICAGO -- Jack Kuzia, son of Mr. and Mrs. Jack Kuzia, 1235 S. Maryland, Glendale, Calif., has been elected president of Theta Xi social fraternity at Illinois Institute of Technology, Chicago.

Kuzia, a senior in civil engineering, is also a cadet in the naval reserve officers' training corps and is secretary of the Institute's interfraternity council.

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Mailed: February 23, 1951
FOR RELEASE: Immediate

CHICAGO -- Edward Mochel, son of Mr. and Mrs. E. A. Mochel, 5224 Fairmount st., Downers Grove, has been elected vice president of Theta Xi social fraternity at Illinois Institute of Technology, Chicago.

Mochel, a senior in chemical engineering, is also a member of the American Institute of Chemical Engineers and is historian of Phi Eta Sigma, national freshman honorary society. He graduated from Downers Grove high school in 1945.

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Mailed: February 23, 1951
FOR RELEASE: Immediate

CHICAGO -- Garland Ridgley, son of Mr. and Mrs. F. A. Ridgley, Route 9, Box 458, Akron, O., has been elected vice president of Delta Tau Delta social fraternity at Illinois Institute of Technology, Chicago.

Ridgley, a senior in chemical engineering, is also a member of the American Institute of Chemical Engineers and is vice president of the college's Midshipmans' Club. He graduated from Coventry high school, Akron, in 1947.

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Mailed: February 23, 1951
FOR RELEASE: Immediate

CHICAGO -- Frank Unmack, son of Dr. and Mr. F. L. Unmack, 830 Missouri ave., Deer Lodge, Mont., has been elected treasurer of Pi Kappa Phi, social fraternity at Illinois Institute of Technology, Chicago.

Unmack, a sophomore in electrical engineering, is also a member of American Institute of Electrical Engineers and the college's rifle team. He graduated from ~~Prell~~ Powell County high school in 1949.

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Mailed: February 23, 1951
FOR RELEASE: Immediate

CHICAGO -- A joint program of study leading to degrees in both liberal arts and engineering has been set up by Aurora college, Aurora, Ill., and Illinois Institute of Technology, Dr. John D. Larkin, dean of liberal studies at Illinois Tech, announced today.

Students will attend Aurora college three years and Illinois Tech two years. They will then receive bachelor's degrees in arts or sciences from Aurora and in science in a designated field of engineering from Illinois Tech.

Purpose of this cooperative educational arrangement is to help meet the growing need for engineers and at the same time provide graduates with the broad general background needed by today's engineers.

The Aurora program is similar to those in effect at Westminster college, Fulton, Mo.; Washington and Jefferson college, Washington, Pa.; and Roosevelt college in Chicago.

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Mailed: February 23, 1951
FOR RELEASE: Immediate

CHICAGO -- Brotherhood Week will be observed at Illinois Institute of Technology this week (Feb. 27-Mar. 2) with a panel discussion, talks, and a series of movies, open to all students.

"Brotherhood is a 24 Hour Job" will be the subject of a round-table discussion at 1 p.m. Tuesday (Feb. 27) in the student union lounge. Speakers will be Minnie Galatzer, director of Actor's company; Irv Kupcinet, columnist, Chicago Sun-Times, and Loren Hutchinson, director of personnel and labor relations, Illinois State Chamber of Commerce.

Russell Babcock, executive director of the Illinois Inter-racial Commission, will speak at 1 p.m. Thursday in the metallurgical and chemical engineering building auditorium on "Are We Two-faced?"

Movies stressing better understanding between nations and races, including travelogues on India, Hawaii, and Scandanavia, will be shown from 1 to 5 p.m. Monday, Wednesday, and Friday in the chemistry building auditorium.

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Mailed: February 23, 1951
FOR RELEASE: Immediate

CHICAGO -- "Designers for Industrial Society" is the topic of a panel discussion Wednesday (Feb. 28) at noon in the Artists Guild club at the St. Clair hotel, 162 E. Ohio st.

Serge Chermayeff, architect and designer, and director of the Institute of Design, a department of Illinois Institute of Technology, will lead the dicussion which is part of a series sponsored by the Artists Guild of Chicago.

Participants, all members of the Institute of Design staff, are: Harold Cohen, designer; Richard Koppe, painter and designer; John Walley, designer and craftsman, and Hugo Weber, sculptor and painter.

James Brown, former instructor in photography at the Institute, will address the club next Wednesday March 7 on "Stroboscopic and Special Photographic Effects."

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Mailed: February 23, 1951
FOR RELEASE: Immediate

CHICAGO -- William E. Mahin, director of research at Armour Research Foundation of Illinois Institute of Technology, has been named director of the metallurgical projects division of a new metallurgical advisory board of the National Research Council.

Formation of the board, composed of leading industrial and academic metallurgists, was announced today. The board will advise the Research and Development Board, Department of Defense, on the research aspects of some of the nation's most critical metals problems.

The new advisory board's work will be directly in the interests of national security since metals in huge quantities are essential for modern military operations, arms, and armor.

Mahin will spend three days each week in Washington, D.C., with the remainder of his time devoted to research administration at the Foundation. He was named last year to a three-year term on the National Research Council as representative of the American Society for Metals.

He will report to Dr. R. F. Mehl, chairman of the new advisory board. The National Research Council is a part of the National Academy of Sciences.

Within the limits of specific problem assignments, the metallurgists will advise the Board on the correlation, coordination, interpretation, and application of metals research and development programs conducted or sponsored by the military services, suggest new research projects or reorientation of

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existing research, and collect and distribute such useful metallurgical information as can be gathered by the establishment of close liaison with the professional societies, governmental agencies and academic and industrial organizations devoted to metals and their use.

Preliminary work by the Metallurgical Advisory Board is already in progress on research and development phases of three of the most urgent metals problems: critical and strategic metals and their substitutes; the application of metals to be used at high temperatures, and the development of the presently small titanium industry.

Mahin was named director of research of the Foundation in August 1949. He joined the staff three years earlier as chairman of the metals research department

From 1937 to 1947 he was in charge of metallurgical engineering at Westinghouse Electric Corporation, Pittsburgh, Pa.

Born November 4, 1906 in Baltimore, Md., Mahin received his B.S. degree in metallurgy at Notre Dame in 1928 and his M.S. degree in metallurgical engineering from Carnegie Institute of Technology in 1933.

He has been in charge of metallurgical research for the Vanadium Corporation of America and was a metallurgist at Inland Steel company.

He is a member of the American Society for Testing Materials, American Society for Metals, American Institute of Mining and Metallurgical Engineers, Institute of Metals, British Iron and Steel Institute, and American Foundrymen's Society.

He is chairman of the Chicago section, American Society for Metals, and member of the executive committee of the Chicago section, American Institute of Mining and Metallurgical Engineers. He is a member of the national publications committee of the American Society for Metals.

Mr. and Mrs. Mahin and their two sons and a daughter live in LaGrange, Ill.

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from...
ILLINOIS INSTITUTE OF TECHNOLOGY
3300 South Federal Street
Chicago 16, Illinois
CALUMET 5-9600

Public Relations Department
James W. Armsey, Director

Mailed: February 26, 1951
FOR RELEASE: Immediate

Exclusive to the Chicago Tribune.

CHICAGO--Pete Kronich, former varsity wrestler at Illinois Tech, has been cited for bravery in action in the Korean theatre, according to word received by his parents, Mr. and Mrs. Walter Kronich, 7527 Perry avenue, Chicago.

When survivors of the late minesweeper Partridge were brought aboard his ship (the USS Comstock, an LSD) Kronich, a machinist mate fireman, took command of a battle dressing station when the regularly assigned corpsman left to assist in an emergency operation.

He and two others "conducted themselves meritoriously," according to the citation, "and were responsible for the saving of four lives due to their quick action."

Kronich was a student of mechanical engineering at Illinois Tech, and last year won a major letter for wrestling. He won 3 of 6 matches in intercollegiate competition in the 175-pound class.

A member of the naval reserve, he was called to active duty last July, and immediately joined the Seventh Fleet. He is now in Formosa.

(The Partridge struck a mine off the Korean coast and was sunk. Dates, casualties, and details are not available here.)

----Jack Gavin

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Mailed: February 27, 1951
FOR RELEASE: Immediate

CHICAGO -- Homeowners and industries of northeastern Wisconsin are being assured continued low cost and better electrical service in the next five, ten, and twenty years as a result of recent studies.

Electrically speaking, the entire area served by Wisconsin Public Service Corporation was set up in a single room here at Illinois Institute of Technology, and a team of engineers from Illinois Tech and Wisconsin Public Service analyzed probelms of design and operation which will benefit residents of the area.

The work was done on Illinois Tech's $100,000 A-C network calculator, an elaborate instrument for simulating power system conditions.

Local experts who worked on the project are T. P. King and Earl Manheimer, engineers, both of Green Bay.

The Wisconsin Public Service Corporation serves the Antigo, Green Bay, Manitowoc, Marinette, Merrill, Oconto, Oshkosh, Rhinelander, Stevens Point, Tomahawk, Wausau, and Door County areas.

With the network calculator, any power system can be exactly reproduced. Instead of time-consuming mathematics, and electrical engineer can set up, in minaiature, a system representing lines extending for hundreds of miles and measure power and voltages at any point under any condition.

Enough circuit elements are available to represent 12 generating stations, 100 transmission lines or transformers, 40 leads, and 18 variable ratio transformers.

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The miniature system can be adjusted to simulate any operating condition. From the readings, the engineers can immediately determine the effect of additional loads, methods by which they can be carried, system performance under normal or emergency conditions, and system changes that can, should, or must be made in the future.

The engineers of the Wisconsin company supplied complete information on the local system and characteristics of all lines, generators, transformers, loads, and voltages were reduced to calculator values.

The circuits on the calculator were then connected in the same manner as the real equipment and adusted to have equivalent values. When all conditions were matched, the setup became an exact replica of the Wisconsin Public Service system.

Changes were made, new lines added, new loads served, new generators put into operation, etc., and accurate immediate measurements were made at all points to show the effects of such changes.

Evrett B. Eggers, electrical engineer at Illinois Tech, is in charge of the calculator.

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Mailed: February 27, 1951
FOR RELEASE: Immediate

CHICAGO -- Peter Zaphyr, 2408 Jacob st., Wheeling, W. Va., has been elected president of Farr Hall, student residence hall at Illinois Institute of Technology, Chicago.

Zaphyr, a graduate student in the mathematics department will hold office for the spring semester.

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Mailed: February 27, 1951
FOR RELEASE: Immediate

CHICAGO -- George Williams, 1084 Palmer ave., Schenectady, N.Y., has been elected recreation chairman of Farr Hall, student residence hall at Illinois Institute of Technology, Chicago.

Williams, a sophomore at Illinois Tech's Institute of Design, will hold office for the spring semester.

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Mailed: February 27, 1951
FOR RELEASE: Immediate

CHICAGO -- David Greer, son of Mr. and Mrs. C. M. Greer, 311 W. Hill st., Eureka, has been elected sports chairman of Farr Hall, student residence hall at Illinois Institute of Technology, Chicago.

Greer, a sophomore in mechanical engineering, is also a member of the Institute's band and glee club. He graduated from Eureka Consolidated high school in 1948.

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Mailed: February 27, 1951
FOR RELEASE: Immediate

CHICAGO -- Max Deterding, 1006 E. Adams st., Syracuse, N.Y., has been elected social chairman of Farr Hall, student residence hall at Illinois Institute of Technology, Chicago.

Deterding, a graduate student in electrical engineering, will hold office for the spring semester.

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Mailed: February 27, 1951
FOR RELEASE: Immediate

CHICAGO -- Lewis Barbe, son of Mr. and Mrs. Bernard Barbe, 5322 Hutchinson st., has been elected secretary of Farr Hall, student residence hall at Illinois Institute of Technology.

Barbe, a sophomore fire protection and safety engineering student, graduated from Carl Schurz high school in 1949. He will hold office for the spring semester.

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Mailed: February 28, 1951
FOR RELEASE: Immediate

CHICAGO -- The thirteenth annual Midwest Power Conference will be held April 4, 5, and 6 at the Sherman hotel, R. A. Budenholzer, professor of mechanical engineering at Illinois Institute of Technology and conference director, announced today.

More than 60 papers on almost every phase of power production, transmission, and consumption will be presented at the 30 sessions of the conference, largest of its kind in the nation.

Luncheon speakers on the three days will be Col. John Slezak, president, Turner Brass Works; Jack T. Wilson, chief physicist, Allis-Chalmers Co., and Dr. John T. Rettaliata, vice president and dean of engineering at Illinois Tech.

The conference is sponsored by Illinois Tech and nine other Midwestern universities and nine local and national engineering societies.

Dan A. Sullivan of Commonwealth Edison Co. heads a 22-man cooperating industry committee. Dr. E. R. Whitehead, chairman of Illinois Tech's electrical engineering department, is conference secretary.

Dr. Henry T. Heald, president of Illinois Tech, will address the opening session.

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Mailed: March 1, 1951
FOR RELEASE: Memo

Note to Editors:

Two copies of the prelimiary program of the 13th annual Midwest Power Conference, April 4, 5, and 6 at the Sherman Hotel, Chicago, are inclosed.

One copy is for your files; the other is for your use in obtaining copies of papers presented at the conference if you wish them. Please indicate the papers you wish, return the marked program to this office, and we shall forward papers as soon as they are available provided enough interest in a particular paper is evidenced to warrant its duplication.

If only a few requests are received for a particular paper, we shall not duplicate it, in which case the publication interested should contact the author directly. Papers in which sufficient interest is shown but which are not received here in time for duplication and mailing will be duplicated and made available at the conference.

Copies of the final program will be sent to you when they are available.

Papers may be published by any magazine on a non-exclusive basis provided permission is obtained from the author and provided credit is given to the "Midwest Power Conference, sponsored by Illinois Institute of Technology."

-- Jim Armsey

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Mailed: March 1, 1951
FOR RELEASE: Immediate

SPECIAL TO CHICAGO TRIBUNE, SOUTH MET. SECTION

CHICAGO -- Author of Germany's latest best selling novel is a Chicagoan.

He is Dr. Fritz K. Richter, 39-year old professor of language at Illinois Institute of Technology, whose book, Koyot, was recently selected as book-of-the-month by the Stuttgart Book Clubs.

The novel, largely autobiographical, describes the immigration of a young German professor, completely lacking in manual skill or trades, who arrived in America seeking an academic position without a command of English during the depression of the 30's.

His success, based completely on luck and the personal confidence, faith, and friendship of a benefactor, is completely at variance with his German background. It is even now quite incomprehensible to the German public, which is accustomed to controlled progress and advancement, even in the life of an individual.

The book derives its title, literally, 'Coyote,' from the words of a friend in America who wrote Richter before he emigrated, saying that he would feel lost in this country and be "like a coyote in the mountain barking at the moon in longing and loneliness."

The novel has been published only in Germany, and is the second work Richter has had published there. The first was a collection of short stories published last year.

Richter was born in Neisse, Germany, and attended universities at Breslau, Paris, Marseilles, and Bonn. He taught at Bonn before coming to

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Mailed: March 2, 1951
FOR RELEASE: Immediate

SPECIAL TO LAB WORLD

CHICAGO — Biology is taught as a dynamic and challenging index of progress at Illinois Institute of Technology.

The department, under the direction of Dr. Leslie R. Hedrick, is far more than a mere adjunct of the Institute's liberal studies program, or a bare "science requirement."

Hedrick believes that biology is not a rote classification and dissection of plants and animals, that zoology, botany, physiology, biochemistry, bacteriology, and genetics are not separate entities, but interwoven threads of a complex fabric.

In many respects, the department is similar to that of most large colleges and universities. There is an emphasis on research and graduate study not usually found in smaller colleges. Of the 51 biology students, almost half are in graduate work.

The graduate program consists of courses, seminars, and research leading to a master's or a doctorate in bacteriology, biochemistry, or biology.

The principal areas of research in bacteriology are food, fermentations, microbiological chemistry, and physiology. In biochemistry they are improvement of biochemical analytical procedures, and chemistry and physiology of metabolic products. Specialty in biology is genetics, specifically, the physiology of gene action and population studies.

Research is a major portion of graduate work. Major work in research is being undertaken in water bacteriology, yeasts, population genetics of the fruit fly, and enzymes of bacteria and yeast.

In accordance with Institute policy, practically all research is of a fundamental nature. No deliberate attempt is made in applied research. The research program is carried on by both staff and graduate students.

Recently, the department began publication of a newsletter dealing with research in yeasts. The mimeographed publication is a digest of papers and developments in fundamental studies in yeasts edited by Dr. Hedrick. Associate editors are Emil Mrak, University of California, and John S. Etchells, U. S. Department of Agriculture, Raleigh, N. C.

The undergraduate biology curriculum reflects the integration and interdependence of science. Mathematics through integral calculus, a year of basic physics, chemistry through quantitative and physical chemistry are required.

At the beginning of the junior year, options are offered in bacteriology, biochemistry, industrial fermentations, biophysics, and teaching or pre-professional for medical and dental students.

Dr. Hedrick, a native of Fisher, Illinois, received his bachelor's degree in 1926 from the University of Illinois, and his doctor's in 1932 at the University of Michigan. He taught biology at Whitworth college, Spokane, from 1932 to 1939 when he joined the Illinois Tech staff.

He is a member of the American Chemical Society, Institute of Food Technologists, Association of Vitamin Chemists, American Society of Bacteriologists, American Association for the Advancement of Science, Sigma Xi, and American Association of University Professors.

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END SPECIAL TO LAB WORLD

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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- "Should a Substantial Number of United States Ground Forces be Stationed in Europe?" will be the topic of a debate at 3 p.m. Wednesday (March 7) in the auditorium of the metallurgical and chemical engineering building at Illinois Institute of Technology.

Participants will be Harry Henig, professor of business and economics, and Donald W. Smithburg, assistant professor of political and social science.

The debate is open to the public.

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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Milton F. Pleva, 6022 S. Artesian ave., has been appointed vice-chairman of the loop division of the 1951 Alumni Fund Council of Illinois Institute of Technology.

He will work with Arnold B. Larsen, chairman, Oak Park, Ill., in directing solicitation of funds for the college in downtown Chicago. In 1950, $135,000 was collected from 3,300 alumni throughout the country.

Pleva is dales representative for Otis Elevator Co. He received a degree in civil engineering from Illinois Tech in 1942.

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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Robert F. Dalton, 5905 W. Ohio st., has been appointed chairman of the central area of Chicago for the 1951 fund drive of the Alumni Fund Council of Illinois Institute of Technology.

Dalton is employed by the U.S. Gypsum Co. He received a degree in chemical engineering from Armour Institute, now Illinois Tech in 1935.

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Night Phone:
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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Henry F. Becker, Jr., 352 E. Hickory st., Lombard, Ill., has been appointed chairman of the suburban division of the 1951 Alumni Fund Council of Illinois Institute of Technology.

He will supervise the collection of funds from alumni living in Chicago suburbs.

Becker is an engineer for Rollins Burdick Hunter Co., Chicago. He received a degree in fire prevention engineering from Armour Institute, now Illinois Tech, in 1933.

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Night Phone:
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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Two north siders have been appointed to the 1951 Alumni Fund Council of Illinois Institute of Technology to help supervise the collection of funds in the Chicago area. They are:

Norman D. Buehling, 1941 Sunset Ridge rd., Glenview, vice chairman of the special gifts committee, and Glenn M. Montgomery, 5748 N. Campbell ave., chairman of the metropolitan division.

In 1950 $135,000 was collected from 3,300 alumni throughout the country.

Buehling, vice president of the Fensholt co., received a degree in electrical engineering from Armour Tech (now Illinois Tech) in 1930.

Montgomery received a degree in civil engineering in 1929. He is a structural engineer for Friedman, Alschuler & Sincere, Chicago.

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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Four northwest siders have been appointed to the 1951 Alumni Fund Council of Illinois Institute of Technology. They are:

Donald M. Fetterman, 6128 N. Naper ave., chairman of the north area of Chicago; Robert J. Afton, 8037 N. Kenton ave., Skokie, Ill., chairman of the north suburbs; Francis G. Varenhorst, 214 S. Merrill ave., Park Ridge, Ill., chairman of the corporate division, and George J. Trinkaus, 3817 Newcastle ave., vice chairman of the metropolitan division.

Each will supervise fund solicitation in his area. In 1950, $135,000 was collected from 3,300 alumni throughout the country.

Fetterman is vice president in charge of engineering at Sonora Radio and Television Corp. He received a degree in electrical engineering from Illinois Tech in 1931.

Afton, junior engineer for Mid-City Heating Co., received a degree in mechanical engineering in 1947.

Varenhorst received a degree in electrical engineering from Armour Tech in 1931, and is now chief engineer for Illinois Bell Telephone Co.

Trinkaus is assistant subway engineer in the department of subways and superhighways of the City of Chicago. He received a degree in civil engineering from the college in 1915.

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Night Phone:
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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Six west siders have been appointed to the 1951 Alumni Fund Council of Illinois Institute of Technology. They are:

Henry F. Becker, Jr., 352 E. Hickory st., Lombard, Ill., chairman of the suburban division; Arthur J. R. Curtis, 934 Bonnie Brae, River Forest, Ill., chairman of the national division, and Robert F. Dalton, 5905 W. Ohio st., chairman of the central area of Chicago.

Others are: Arnold B. Larsen, 307 Oak Park ave., Oak Park, Ill., chairman of the loop division; Gernal E. Myers, 324 S. Loomis st., Naperville, Ill., chairman of the far west suburbs, and Clifford J. B. Zitek, 3602 Scoville ave., Berwyn, Ill., chairman of the near west suburbs.

They will supervise collection of funds for this year's drive. In 1950, $135,000 was collected from 3,300 alumni throughout the country.

Becker is an engineer for Rollins Burdick Hunter Co., He received a degree in fire prevention engineering from Armour Institute in 1933. Curtis, who graduated from Armour in 1910, is assistant secretary and safety director of Portland Cement Assn., Chicago.

Dalton received a degree in chemical engineering in 1935. He is now employed by the U. S. Gypsum Co. Larsen, training adviser for Commonwealth Edison Co., received a degree in electrical engineering in 1927.

Myers is in the engineering department of W. A. Alexander & Co., Chicago. He graduated from the college in 1934. Zitek, who received a degree i chemistry in 1947, is assistant chemist for Commonwealth Edison Co.

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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Three southwest siders have been appointed to the 1951 Alumni Fund Council of Illinois Institute of Technology. They are:

A. J. Vogele, 8860 S. Hamilton ave., vice chairman of the corporate division; Milton F. Pleva, 6022 S. Artesian ave., vice chairman of the loop division, and Charles J. Ryant, Jr., 716 W. 82nd st., chairman of the south area of Chicago.

Vogele will supervise collection of funds from alumni employed by local concerns. He received a degree in mechanical engineering from Armour Institute, now Illinois Tech, in 1931, and is now staff assistant to the superintendent of construction of Commonwealth Edison Co.

Pleva will work with Arnold B. Larsen, Oak Park, Ill., in directing solicitation of funds in downtown Chicago. He is sales representative for Otis Elevator Co., and received a degree in civil engineering in 1942.

Ryant received a degree in chemical engineering in 1940. He is staff engineer for Standard Oil Company of Indiana.

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Night Phone:
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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Robert F. Tosky, 8938 E. Delaware pky., Hammond, Ind., has been appointed chairman of the south suburbs for the 1951 Alumni Fund Coucil of Illinois Institute of Technology.

He will supervise collection of funds in all south Chicago suburbs.

Tosky is an engineer for Combustion Engineering-Superheater, Inc., Chicago. He received a degree in mechanical engineering from Illinois Tech in 1949.

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Night Phone:
Lombard 1810-R

Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Francis X. Mettenet, 6901 Oglesby ave., has been appointed chairman of the special gifts committee for the 1951 Alumni Fund Council of Illinois Institute of Technology.

Mettenet is vice president in charge of sales of Peoples Gas Light & Coke Co. He received a degree from Lewis Institute in 1909.

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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- R. W. Regensburger, 849 Park dr., Flossmoor, Ill., is general chairman of the 1951 Alumni Fund Council of Illinois Institute of Technology.

He will direct hundreds of alumni throughout the country in the solicitation of funds for the college. Last year $135,000 was collected from 3,300 alumni.

Regensburger is vice president in charge of construction for Swift & Co., Chicago. He received a degree in mechanical engineering from Armour Institute, now Illinois Tech, in 1920.

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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Glenn M. Montgomery, 5748 N. Campbell ave., has been appointed chairman of the metropolitan division for the 1951 Alumni Fund Council of Illinois Institute of Technology.

He will direct the solicitation of funds from alumni living in the Chicago area. In 1950, $135,000 was collected from 3,300 alumni throughout the country.

Montgomery is a structural engineer for Friedman, Alschuler & Sincere, Chicago. He received a degree in civil engineering from Armour Institute, now Illinois Tech, in 1929.

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Night Phone:
Lombard 1810-R

Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO — Norman D. Buehling, 1941 Sunset Ridge rd., Glenview, Ill. has been appointed vice chairman of the special gifts committee for the 1951 Alumni Fund Council of Illinois Institute of Technology.

He will work with Francis X. Mettenet, Chicago, committee chairman.

Buehling is vice president of The Fensholt Co., Chicago. He received a degree in electrical engineering from Armour Institute, now Illinois Tech, in 1930.

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Night Phone:
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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Donald M. Fetterman, 6128 N. Naper ave., has been appointed chairman of the north area of Chicago for the 1951 drive of the Alumni Fund Council of Illinois Institute of Technology.

Fetterman is vice president in charge of engineering at Sonora Radio and Television Corp. He received a degree in electrical engineering from Armour Institute, now Illinois Tech, in 1931.

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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO — Robert J. Afton, 8037N. Kenton ave., Skokie, Ill., has been appointed chairman of the north suburbs for the 1951 Alumni Fund Council of Illinois Institute of Technology.

He will supervise collection of funds in all north Chicago suburbs.

Afton is a junior engineer for Mid-City Heating Co., Chicago. He received a degree in mechanical engineering from Illinois Tech in 1947.

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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Francis G. Varenhorst, 214 S. Merril ave., Park Ridge, Ill., has been appointed chairman of the corporate division of the 1951 Alumni Fund Council of Illinois Institute of Technology.

He will direct the solicitation of funds from alumni who are employes of concerns in the Chicago area. In 1950, $135,000 was collected from 3,300 alumni throughout the country.

Varenhorst is chief engineer for Illinois Bell Telephone Co. He received a degree in electrical engineering in 1931 from Armour Institute, now Illinois Tech.

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Night Phone:
Lombard 1810-R

Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO — Three south siders have been appointed to the 1951 Alumni Fund Council of Illinois Institute of Technology. They are:

R. W. Regensburger, 849 Park dr., Flossmoor, Ill., general chariman of the fund; Francis X. Mettenet, 6901 S. Oglesby ave., chairman of the special gifts committee, and Robert F. Tosky, 8938 E. Delaware pky., Hammond, Ind., chairman of the south suburbs.

Regensburger, a vice president of Swift & Co., and a 1920 graduate of Illinois Tech, will direct hundreds of alumni throughout the country in the solicitation of funds for the college. Last year $135,000 was collected from 3,300 alumni.

Mettenet, who graduated from Lewis Institute in 1909, is vice president in charge of sales of Peoples Gas Light & Coke co.

Tosky is an engineer for Combustion Engineering-Superheater, Inc., Chicago. He received a degree in mechanical engineering from Illinois Tech in 1949.

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Night Phone:
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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- A. J. Vogele, 8860 S. Hamilton ave., has been appointed vice chairman of the corporate division of the 1951 Alumni Fund Council of Illinois Institute of Technology.

He and Francis G. Varenhorst, chairman, Park Ridge, will direct the solicitation of funds from alumni who are employes of Chicago concerns.

Vogele is staff assistant to the superintendent of construction of Commonwealth Edison Co. He received a degree in mechanical engineering from Armour Institute, now Illinois Tech, in 1931.

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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Clifford J. B. Zitek, 3602 Scoville ave., Berwyn, has been appointed chairman of the near west suburbs for the 1951 Alumni Fund Council of Illinois Institute of Technology.

He will supervise collection of funds in all near west Chicago suburbs.

Zitek is an assistant chemist for Commonwealth Edison Co., Chicago. He received a degree in chemistry from Illinois Tech in 1947.

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Night Phone:
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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Gerald E. Myers, 324 S. Loomis st., Naperville, has been appointed chairman of the far west suburbs for the 1951 Alumni Fund Council of Illinois Institute of Technology.

He will supervise collection of funds in all far west Chicago suburbs.

Myers is in the engineering department of W. A. Alexander & Co., Chicago. He received a degree in fire prevention engineering from Armour Institute, now Illinois Tech, in 1934.

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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Arthur J. R. Curtis, 934 Bonnie Brae, River Forest, has been appointed chairman of the national division for the 1951 Alumni Fund Council of Illinois Institute of Technology.

He will supervise collection of funds from alumni living outside the Chicago area.

Curtis is assistant secretary and safety director of Portland Cement Assn., Chicago. He received a degree in mechanical engineering from Armour Institute, now Illinois Tech, in 1910.

-pap-

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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Arnold B. Larsen, 307 N. Oak Park ave., Oak Park, has been appointed chairman of the loop division of the 1951 Alumni Fund Council of Illinois Institute of Technology.

He will direct the activities of all fund solicitors in downtown Chicago. In 1950, $135,000 was collected from 3,300 alumni throughout the country.

Larsen is training advisor for Commonwealth Edison Co., Chicago. He received a degree in electrical engineering from Armour Institute, now Illinois Tech, in 1927.

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Night Phone:
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Mailed: March 2, 1951
FOR RELEASE: Immediate

CHICAGO -- Charles J. Ryant, Jr., 716 W. 82nd st., has been appointed chairman of the south area of Chicago for the solicitation of funds of the 1951 Alumni Fund Council of Illinois Institute of Technology.

Ryant is staff engineer for Standard Oil Company of Indiana. He received a degree in chemical engineering from Illinois Tech in 1940

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Mailed: March 5, 1951

FOR RELEASE: Immediate

CHICAGO -- Two new fellowships in metallurgical engineering have been established at Illinois Institute of Technology by the International Nickel Company, Incorporated, it was announced today by Dr. William A. Lewis, dean of the Institute graduate school.

Each of the fellowships provides for two year's study leading to a master of science degree in metallurgical engineering, and carries an annual award of $1,500 and tuition.

Purpose of the program, to begin in September, 1951, is to stimulate work in the fields of nickel, copper, and the platinum metals.

The course of study will provide both practical and theoretical education. A specified research project will be determined by officials of the Institute and the sponsoring company.

Candidates must have a bachelor's degree in metallurgical engineering from an accredited engineering college. The awards will be based on personal qualifications, interest, and scholarship.

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from

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Mailed: March 5, 1951
FOR RELEASE: Photo Memo

Attn: Mr. Hubbard, metropolitan sections, Chicago Tribune

Institute for Psychological Services of Illinois Institute of Technology has been conducting a course in improving reading habits at Lake Forest Academy, Lake Forest, for the past semester. The program is under the direction of Mrs. Elizabeth Simpson.

At the end of an eight-week session students showed net gains of more than 50 percent in reading rate and 14 percent in reading comprehension.

The program is both remedial and developmental. Two groups were formed with 10 students in each. Poor readers with capacity for improvement were in one, and students with high reading rates to start were in the other.

Equipment used includes the reading accelerator, the tachistoscope, a machine which projects phrases and digits on a screen at different rates of speed, and the Harvard Reading film.

Suggested photos:

1. Students reading from reading accelerator.
2. Students and instructors using tachistoscope.
3. Students reading regular class material, illustrating transfer of improved reading habits to regular class room assignments.

from

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Night Phone:
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Mailed: March 5, 1951
FOR RELEASE: Immediate

Information on Illinois Tech's reading course at Lake Forest Academy:

Exclusive to the Chicago Tribune

The Institute for Psychological Services of Illinois Institute of Technology has started a program designed to improve the reading rates and comprehension of students at Lake Forest Academy, a high school for boys in Lake Forest, Ill.

Two groups of 10 students each were formed. The first groups, composed of problem readers, was given immediate help in remedial reading on a small group or individual basis. The other group was made up of students who were good readers to start and was given instruction in developmental reading. These groups met three times a week for eight weeks.

Two full time instructors, Joseph Logsdon and Miss Jean Underwood, work on the reading program at the Academy, under the direction of Mrs. Elizabeth Simpson, director of the Adult Reading Service of the Institute for Psychological Services.

At the end of the first semester the students were re-tested, showing net gains averaging more than 50 percent in reading rate and 14 percent in reading comprehension.

"This means that in one hour of study the trained reader can cover 50 percent more content than he did before, and with better understanding," explained Mrs. Simpson, "or that he can do his required reading in one-half the time."

-more-

"An investment of 24 hours in reading training pays dividends -- now in terms of its contributions to school marks and later in terms of its benefits in handling the heavier reading load called for in college."

"Every student in our school, of course, knows how to read," said E. Francis Bowditch, head master of Lake Forest Academy, "but what we now realize is that even our best students, without training, are reading at only a fraction of the reading power of which they are capable."

That's like saying that the deluxe Cadillac as well as the standard Chevrolet will run more efficiently with a tune-up. In this case, tuning up the student is accomplished through the course in reading improvement.

Before the course began, the boys were given a series of tests including IQ, reading, personality, mathematics, and interest tests, then individually counseled, and finally placed in a class.

The reading accelerator, a mechanical shutter device that may be set for different speeds of reading, and the tachistoscope, a machine which projects phrases and digits on a screen at different rates of speed, were used in the classes. The Harvard Reading film, containing meaningful phrases which can be projected at a controlled rate, was also used.

Bowditch asked that the program be started at Lake Forest Academy last fall.

End exclusive to the Chicago Tribune

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Mailed: March 5, 1951
FOR RELEASE: Immediate

CHICAGO — A record dance will be held at 9 p.m. Friday (March 9) in the lounge of Farr Hall, 3300 S. Michigan ave., a residence hall at Illinois Institute of Technology.

Max Deterding, social chairman of Farr Hall, is in charge of the dance.

Students residing in Fowler Hall, 3200 S. Michigan ave., and Brown Hall, 3254 S. Michigan ave., have been invited.

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s from

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Night Phone:
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Mailed: March 5, 1951
FOR RELEASE: Immediate

CHICAGO -- Max Deterding, 1006 E. Admas st., Syracuse, N. Y., is chairman of a dance Friday evening (March 9) at Farr Hall, residence hall of Illinois Institute of Technology, Chicago.

Deterding is a graduate student in electrical engineering at the college.

Students in two other Illinois Tech residence halls have been invited to the dance.

-pap-

from
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Mailed: March 6, 1951
FOR RELEASE: Immediate

CHICAGO -- Illinois Institute of Technology will again sponsor a drafting contest for students of Chicago Public high schools, Henry C. Spencer, chairman of the college technical drawing department, announced today.

Last year more than 1,200 students from 28 city high schools competed.

Among the prizes are a scholarship to Illinois Tech, drawing instruments and equipment, cash awards, and honorable mention certificates.

Competition will be held in three division -- basic drafting, advanced drafting, and machine drafting. Problems selected for the contest will be from required classroom projects and will be a part of the regular school work.

Problems will be announced April 4. The contest will close June 4. Judges will be chosen from local industry, and announcement of winners in each of the classes will be made soon after the contest closes.

Prizes will be on display at the Institute during the annual Open House and Junior Week celebration May 3, 4, 5.

-jeg-

from

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Mailed: March 6, 1951
FOR RELEASE: Immediate

CHICAGO -- Bob McCue, 5'11" junior guard from Leo high school, has been elected captain of the Illinois Tech basketball squad for the 1951-52 season, Coach Ed Glancy announced today.

McCue, a mechanical engineering student, succeeds Bob Leiser, the team's leading scorer this year with 267 points in 17 games.

The new Techawk captain is a three-letter winner. An outstanding playmaker, he totaled 197 points this year. High spot of his play was a 28 point outburst in leading the Techawks to a 71-63 win over Wheaton. In that game he made 16 free throws in as many attempts.

McCue, 20, lives at 1520 East 59th street.

-jeg-

s from

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Thomas Fox, son of Mr. and Mrs. Walter Fox, 7937 S. Morgan ave., has been pledged to Sigma Phi Epsilon fraternity at Illinois Institute of Technology.

Fox is a freshman in the college, majoring in chemistry. He graduated from St. Leo high school in 1950.

-dwc-

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Edwin Ehart, son of Mrs. Catherine Ehart, 6535 S. Woodlawn ave., has been pledged to Sigma Phi Epsilon fraternity at Illinois Institute of Technology.

Ehart is a sophomore in the college, majoring in chemical engineering. He graduated from Hyde Park high school in 1946.

-dwc-

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO — Paul Bardwell, son of Mr. and Mrs. W. J. Bardwell, 5709 W. Ohio st., has been pledged to Sigma Phi Epsilon fraternity at Illinois Institute of Technology.

Bardwell is a sophomore in the college, majoring in mechanical engineering. He graduated from St. Phillip high school in 1950.

-dwc-

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- John Campbell, son of Mr. and Mrs. J. A. Campbell, 7331 Kingston ave., has been pledged to Sigma Phi Epsilon fraternity at Illinois Institute of Technology.

Campbell is a sophomore in the college, majoring in fire protection engineering. He graduated from Loyola high school.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO — Jeff Montgomery, son of Mr. and Mrs. J. D. Montgomery, 6548 Greenwood ave., has been pledged to Sigma Phi Epsilon fraternity at Illinois Institute of Technology.

Montgomery is a sophomore in the college, majoring in electrical engineering. He graduated from Salem high school, Salem, ark., in 1943.

-pap-

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Gary Harris, son of Mr. and Mrs. Howard Harris, 4342 W. Washington st., has been pledged to Tau Epsilon Phi fraternity at Illinois Institute of Technology.

Harris is a freshman in the college, planning to major in electrical engineering. He is a graduate of Austin high school.

-pap-

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Peter L. Gershanov, son of Mr. and Mrs. Leo Gershanov, 6750 Ridgeland ave., has been pledged to Tau Epsilon Phi fraternity at Illinois Institute of Technology.

Gershanov is a freshman in the college, planning to major in mechanical engineering. He is a graduate of Hyde Park high school.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Burton Samuels, son of Mr. and Mrs. Saul Samuels, 1344 Independence blvd., has been pledged to Tau Epsilon Phi fraternity at Illinois Institute of Technology.

Samuels is a freshman in the liberal arts department. He graduated from Marshall high school.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- William Travis, son of Mr. and Mrs. Leo Travis, 29 W. Harrison st., Oak Park, has been pledged to Tau Epsilon Phi fraternity at Illinois Institute of Technology.

Travis is a freshman at Illinois Tech, planning to major in chemical engineering. He graduated from Austin high school.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- June Smith, daughter of Mr. and Mrs. Gordon Smith, 2817 Mildred ave., has been pledged to Delta Zeta sorority at Illinois Institute of Technology.

Miss Smith is a freshman in the college, majoring in home economics. She graduated from Waller high school in January.

-pap-

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Joan Graper, daughter of Mr. and Mrs. Lawrence Graper, 9430 Loomis st., has been pledged to Delta Zeta sorority at Illinois Institute of Technology.

Miss Graper is a freshman in the college, majoring in home economics. She graduated from Morgan Park high school in January.

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Mailed: March 7, 1951
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CHICAGO -- Marilyn Call, daughter of Mr. and Mrs. Rodney W. Call, 1012 W. 104th pl., has been pledged to Delta Zeta sorority at Illinois Institute of Technology.

Miss Call is a freshman in the college, majoring in home economics. She graduated from Fenger high school in January.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Doris Sposta, daughter of Mr. and Mrs. John Sposta, 3421 S. Aberdeen ave., has been pledged to Delta Zeta sorority at Illinois Institute of Technology.

Miss Sposta is a freshman in the college, majoring in home economics. She graduated from Englewood high school.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Fern Schalund, daughter of Mr. and Mrs. Elmer Schalund, 4316 W. 21st pl., has been initiated into Delta Zeta sorority at Illinois Institute of Technology.

Miss Schalund is a freshman in the college, majoring in home econmics. She graduated from Farragut high school in 1950.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Loretta Johnson, 1514 S. Winona, has been initiated into Delta Zeta sorority at Illinois Institute of Technology.

Miss Johnson is a senior in the college, majoring in psychology.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Patricia Turner, daughter of Mrs. Mira B. Turner, 2943 Belle Plaine ave., has been initiated into Delta Zeta sorority at Illinois Institute of Technology.

Miss Turner is a freshman in the college, majoring in home economics. She graduated from Amundsen high school in June.

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Mailed: March 7, 1951
FOR RELEASE: Immediately

CHICAGO -- Carol Johnson, daughter of Mr. and Mrs. Roy H. Johnson, 341 S. Trumbull ave., has been pledged to Sigma Kappa sorority at Illinois Institute of Technology.

Miss Johnson is a freshman in the college, planning to major in language, literature, and philosophy. She is a member of the glee club, and is on the staff of Tech News, campus newspaper. She is a graduate of Austin high school.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Juele Hughes, daughter of Mr. and Mrs. David L. Hughes, 7434 W. Catalpa ave., has been pledged to Sigma Kappa sorority at Illinois Institute of Technology.

Miss Hughes is a freshman in the college, majoring in home economics. She is secretary of the Campus Players, a member of the Home Economics Club, the Illinois Tech Student Association, and the Illinois Tech Women's Association. She graduated from Taft high school.

-pap-

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO — Lorraine Truzynski, daughter of Mr. and Mrs. Leo Truzynski, 4830 Fletcher st., has been pledged to Sigma Kappa sorority at Illinois Institute of Technology.

Miss Truzynski is a freshman in the college, planning to major in biology. She is on the staff of Tech News, campus newspaper, and is a member of the Newman Club. She graduated from Immaculata high school.

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Mailed: March 7, 1951
FOR RELEASE: Immediately

CHICAGO — Nina Lee Schlaf, daughter of Mr. and Mrs. Frank A. Schlaf, 4217 S. Sunnyside ave., Brookfield, has been pledged to Sigma Kappa sorority at Illinois Institute of Technology.

Miss Schlaf is a freshman in the college, planning to major in mathematics. She graduated from Lyons Township high school, La Grange.

-pap-

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Mailed: March 7, 1951
FOR RELEASE: Immediately

CHICAGO -- Ellen Kramp, daughter of Mr. and Mrs. Edwin J. Kramp, 2317 S. Lawndale ave., has been pledged to Sigma Kappa sorority at Illinois Institute of Technology.

Miss Kramp is a freshman in the college, planning to major in physics. She graduated from Harrison High school.

-pap-

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Robert Moss, son of Mr. and Mrs. B. J. Moss, 4906 N. Ridgeway st., has been pledged to Alpha Epsilon Pi fraternity at Illinois Institute of Technology.

Moss is a freshman at the Institute, majoring in metallurgical engineering. He graduated from Roosevelt high school in January.

-dwc-

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Mailed: March 7, 1951
FOR RELEASE: Immediately

CHICAGO -- John White, son of Mr. and Mrs. J. B. White, 7831 Euclid ave., has been pledged to Alpha Sigma Phi fraternity at Illinois Institute of Technology.

White is a freshman at the Institute, majoring in chemical engineering. He graduated from South Shore high school in January.

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Mailed: March 7, 1951
FOR RELEASE: Immediately

CHICAGO -- Carl Olson, son of Mr. and Mrs. Tore Olson, 2836 N. Sheffield ave., has been pledged to Alpha Sigma Phi fraternity at Illinois Institute of Technology.

Olson is a sophomore at the Institute, majoring in fire protection engineering. He graduated from Waller high school in 1948.

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Mailed: March 7, 1951
FOR RELEASE: Immediately

CHICAGO — Donald Polacek, son of Mr. and Mrs. B. P. Polacek, 11419 S. Fairfield ave., has been pledged to Alpha Sigma Phi fraternity at Illinois Institute of Technology.

Polacek is a freshman at the Institute, majoring in mechanical engineering. He graduated from Morgan Park high school in February.

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Mailed: Mardh 7, 1951
FOR RELEASE: Immediate

CHICAGO — David Odom, son of Mr. and Mrs. Dennis Odom, 3306 Sangamon st., Steger, Ill., has been pledged to Alpha Sigma Phi fraternity at Illinois Institute of Technology.

Odom is a freshman at the Institute, majoring in chemical engineering. He graduated from Bloom high school in February.

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Mailed: March 7, 1951
FOR RELEASE: Immediately

CHICAGO -- Charles Uram, son of Mr. and Mrs. Michael Uram, 860 Burnham ave., Calumet City, Ill., has been pledged to Alpha Sigma Phi fraternity at Illinois Institute of Technology, Chicago.

Uram is a freshman at the Institute, majoring in fire protection engineering. He is a member of the freshman basketball team. He graduated from Thorton Fractional high school in 1950.

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Mailed: March 7, 1951
FOR RELEASE: Immediately

CHICAGO — Robert Rahn, son of Mr. and Mrs. E. W. Rahn, 7619 S. Carpenter st., has been pledged to Alpha Sigma Phi fraternity at Illinois Institute of Technology.

Rahn, a freshman at the Institute, is majoring in fire protection and safety engineering. He graduated from Calumet high school in 1950.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Harold W. Field, son of Mr. and Mrs. Harold W. Field, 690 Success rd., Akron, O., has been pledged to Phi Kappa Sigma fraternity at Illinois Institute of Technology.

Field is a freshman, planning to major in property insurance. He is a graduate of Scott high school, North Braddock, Pa.

-pap-

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- John T. ~~Bosser,~~ Blosser son of Mr. and Mrs. John R. Blosser, 201 W. High st., Hicksville, O., has been pledged to Phi Kappa Sigma fraternity at Illinois Institute of Technology.

He is a freshman in the college, planning to major in property insurance. He graduated from Hicksville high school.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Paul C. Augustine, son of Mr. and Mrs. Paul Augustine, 419 S. Center st., Grove City, Pa., has been pledged to Phi Kappa Sigma fraternity at Illinois Institute of Technology, Chicago.

Augustine is a freshman, planning to major in mechanical engineering. He is a graduate of Fishburne Military School, Waynesboro, Va.

-pap-

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Donald C. Alger, 4540 Van Buren st., Gary, and James W. Flynn, 620 Tennessee st., Gary, have pledged Phi Kappa Sigma fraternity at Illinois Institute of Technology.

Alger is the son of Mr. Earle M. Alger and the late Mrs. Alger. He is a freshman in the college, planning to major in metallurgical engineering. He graduated from Lew Wallace high school.

Flynn is the son of Mr. and Mrs. James W. Flynn. He is also a freshman, planning to major in metallurgical engineering. He graduated from Emerson high school.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Randall Harnish, son of Mr. and Mrs. Ewald A. Harnish, 321 Oaklawn ave., Elmhurst, has been pledged to Phi Kappa Sigma fraternity at Illinois Institute of Technology.

Harnish is a freshman in the college, planning to major in fire protection and safety engineering. He graduated from York Community high school, Elmhurst.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Walter Sands, son of Mr. and Mrs. W. L. Sands, 4138 Larkwood ave., Louisville, Ky., has been pledged to Pi Kappa Phi fraternity at Illinois Institute of Technology, Chicago.

Sands is a sophomore in the college, majoring in fire protection and safety engineering. He graduated from Du Pont Manual high school in Louisville.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO — Howard Paris, son of Mr. and Mrs. Sam Paris, 1555 S. Springfield ave., has been pledged to Sigma Alpha Mu fraternity at Illinois Institute of Technology.

Paris is a junior at the Institute, majoring in food engineering. He graduated from Marshall high school in 1949.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Gerald Unverzagt, son of Mrs. Grace Unverzagt, 4715 N. Sacramento, has been pledged to Sigma Phi Epsilon fraternity at Illinois Institute of Technology.

Unverzagt is a freshman in the college, majoring in mechanical engineering. He graduated from Marion Military Academy, Aurora, in 1949.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Ted Quintas, son of Mr. and Mrs. Steve Quintas, 2478 Lincoln ave., has been pledged to Sigma Phi Epsilon fraternity at Illinois Institute of Technology.

Quintas is a freshman in the college, majoring in architecture. He graduated from Lane Tech in 1950.

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO — Norman Pepin, son of Mr. and Mrs. Edward Pepin, 314 W. 101st st., has been pledged to Sigma Phi Epsilon fraternity at Illinois Institute of Technology.

Pepin, a sophomore in the mechanical engineering department, is also a member of the Institute's rifle team. He graduated from Tilden Tech in 1949.

-dwc-

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Mailed: March 7, 1951
FOR RELEASE: Immediately

CHICAGO — Donald Pastel, son of Mr. and Mrs. Joseph Pastel, 4157 S. Western Blvd., has been pledged to Sigma Phi Epsilon fraternity at Illinois Institute of Technology.

Pastel is a sophomore in the college, majoring in electrical engineering. He graduated from Tilden Tech in 1944.

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Mailed: March 7, 1951
FOR RELEASE: Immediately

CHICAGO — Charles Neugebauer, son of Mrs. Constance Neugebauer, 5552 S. Whipple, has been pledged to Sigma Phi Epsilon fraternity at Illinois Institute of Technology.

Neugebauer is a senior in the college, majoring in mechanical engineering. He graduated from Tilden Tech in 1946.

-dwc-

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Mailed: March 7, 1951
FOR RELEASE: Immediate

CHICAGO -- Bruce Gray, son of Mr. and Mrs. W. B. Gray, 938 Wisconsin ave., Oak Park, has been pledged to Sigma Phi Epsilon fraternity at Illinois Institute of Technology.

Gray is a freshman in the civil engineering department of the Institute. He graduated from Oak Park high school in 1951.

-dwc-

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Night Phone:
Lombard 1810-R

Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- Joseph S. Scott, Jr., son of Mr. and Mrs. Scott, 2010 Warner ave., has been elected president of the student chapter of the American Chemical Society of Illinois Institute of Technology.

Scott is a senior in the college. This is his third semester as president of the society.

-pap-

from

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- Raymond Kofoed, Jr., son of Mr. and Mrs. Kofoed, 3340 Roscoe st., has been elected vice president of the student chapter of the American Chemical Society of Illinois Institute of Technology.

Kofoed is a senior in the college. He is also a member of Alpha Chi Sigma, chemical fraternity, and the intramural basketball and baseball teams.

-pap-

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- Marilyn J. Jensen, daughter of Mr. and Mrs. Elmer R. Jensen, 6540 S. Komensky ave., has been elected secretary of the American Chemical Society at Illinois Institute of Technology.

Miss Jensen is a senior in the college.

-pap-

from

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — Frank Sikorski, son of Mr. and Mrs. Frank Sikorski, 4217 W. Roscoe st., has been elected treasurer of the student chapter of the American Institute of Electrical Engineers at Illinois Institute of Technology.

Sikorski is a senior in the college. He is also a member of the Polish club.

-pap-

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — Arthur Regzlaff, son of Mr. and Mrs. Henry Retzlaff, 6422 S. Paulina ave., has been elected vice president of the Business and Economics club at Illinois Institute of Technology.

Retzlaff is a senior in the college. He is a member of Sigma Alpah Mu, social fraternity.

-pap-

from

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- Frank Opelka, son of Mr. and Mrs. Frank J. Opelka, 6048 S. Albany ave., has been elected vice chairman of the student chapter of the American Institute of Electrical Engineers of Illinois Institute of Technology.

Opelka is a junior in the college. He is president of Delta Tau Delta, social fraternity.

-pap-

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- John T. Suska, Jr., son of Mr. and Mrs. Suska, 5126 Maplewood ave., has been elected chairman of the American Institute of Electrical Engineers at Illinois Institute of Technology.

Suska is a senior in the college. He is also a member of the Polish Club, the Institute of Radio Engineers, the Western Society of Engineers, and the Interprofessional Council.

-pap-

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- Henry A. Pahl, son of Mr. and Mrs. Henry W. Pahl, 1305 Barry ave., has been elected secretary of the student chapter of the American Institute of Electrical Engineers at Illinois Institute of Technology.

Pahl is a senior in the college. He also is a member of the Railroad Club and Theta Xi, social fraternity.

-pap-

from

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Night Phone:
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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- Victor Rengh, 4846 W. 43rd st., has been elected recording secretary of the Business and Economics Club at Illinois Institute of Technology.

Rengh is a junior in the college.

-pap-

s from

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- Peter Zelisko, son of Mr. and Mrs. Alex Zelisko, 121 E. 79th st., has been elected corresponding secretary of the Business and Economics Club at Illinois Institute of Technology.

Zelisko is a senior in the college. He is a graduate of Lindblom high school.

-pap-

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Night Phone:
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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- Frank Duda, son of Mr. and Mrs. F. L. Duda, 2533 S. Avers ave., has been elected treasurer of the Business and Economics Club at Illinois Institute of Technology.

Duda is a junior in the college. He is a graduate of Farragut high school.

-pap-

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Night Phone:
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Mailed: March 3, 1951
FOR RELEASE: Immediate

CHICAGO -- Charles R. Gentzel, son of Mr. and Mrs. Charles Gentzel, 7550 Saginaw ave., has been elected president of the Business and Economics Club at Illinois Institute of Technology.

Gentzel is a senior in the college. He is also a member of Theta Xi, social fraternity, Sigma Iota Epsilon, honorary fraternity, and is active in intramural and inter-fraternity sports.

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Night Phone:
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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — Elaine Krause, daughter of Mr. and Mrs. Frank Krause, 1157 S. Elmwood ave., Oak Park, Ill. has been elected secretary-treasurer of the Illinois Tech Women's Association at Illinois Institute of Technology.

Miss Krause is a junior in the home economics department. She is also a member of Delta Zeta sorority, the Bowling Club, Panhellenic Council, and the Home Economics Club.

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — Ursula Lier, daughter of Mr. and Mrs. Carl F. Lier, 1033 N. Menard ave., has been elected president of the Illinois Tech Women's Association at Illinois Institute of Technology.

Miss Lier is a senior in the department of home economics. She is also a member of Sigma Kappa sorority, the Panhellenic Council, and the Home Economics Club.

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- Phyllis Thomas, daughter of Mr. and Mrs. Julius M. Thomas, 6441 N. Francisco ave., has been elected vice president of the Illinois Tech Women's Association at Illinois Institute of Technology.

Miss Thomas is a senior in the home economics department. She is also a member of Sigma Kappa sorority, the Home Economics club, the junior class social committee, is on the staff of Integral, campus yearbook, and is a senior women's counselor.

-pap-

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — Gregory Haugan, son of Mr. and Mrs. Melvin M. Haugan, 5400 S. Oakenwald ave., has been elected treasurer of the student chapter of the Institute of Aeronautical Sciences at Illinois Institute of Technology.

Haugan is a senior in the mechanical engineering department. He is also a member of the track team, basketball team, Rifle Club, the student chapter of the American Society of Mechanical Engineers, and Delta Lambda Xi fraternity.

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — Frank Halwax, son of Mr. and Mrs. Karl Halwax, 5254 W. Fletcher st., has been elected president of the student chapter of the Institute of Aeronautical Sciences at Illinois Institute of Technology.

Halwax is a senior in the civil engineering department of the college. He is also a member of the student chapter of the American Society of Civil Engineers.

-pap-

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- Lawrence Rawlings, son of Mr. and Mrs. L. J. Rawlings, 7524 S. May st., has been elected secretary of the student chapter of the Institute of Aeronautical Sciences at Illinois Institute of Technology.

Rawlings is a senior in the mechanical engineering department. He is also a member of the student chapter of the American Society of Mechanical Engineers.

-pap-

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — Marvin Schwartz, son of Mr. and Mrs. Frank Schwartz, 1136 Kensington, Arlington Heights, has been elected vice president of the student chapter of the Institute of Radio Engineers at Illinois Institute of Technology.

Schwartz is a sophomore in the mechanical engineering department. He is a graduate of Arlington high school.

-pap-

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — George Strawbridge, son of Mrs. Ruth L. Strawbridge, 1513 Almond st., Williamsport, Pa., has been elected secretary of the student chapter of the Institute of Radio Engineers at Illinois Institute of Technology.

Strawbridge is a senior in the electrical engineering department. He graduated from Girard College, Philadelphia, Pa., in January, 1946.

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — Leonard Delestowicz, son of Mr. and Mrs. Michael Delestowicz, 5224 W. 31st st., Cicero, has been elected treasurer of the student chapter of the Institute of Radio Engineers at Illinois Institute of Technology.

Delestowicz is a senior in the electrical engineering department. He is also a member of the student chapter of the American Institute of Electrical Engineers.

-pap-

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- Harry Hummel, son of Mr. and Mrs. George Hummel, 284 Church st., West Chicago, has been elected president of the student chapter of the Institute of Radio Engineers at Illinois Institute of Technology.

Hummel is a senior in the electrical engineering department. He is also a member of the student chapter of the American Institute of Electrical Engineers, Tau Beta Pi, Eta Kappa Nu, and Phi Eta Sigma, honorary fraternities.

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- Jack Kuzia, son of Mr. and Mrs. Jack Kuzia, 1235 S. Maryland, Glendale, Cal., has been elected secretary of the interfraternity Council at Illinois Institute of Technology, Chicago.

Kuzia is a senior in the civil engineering department. He is president of Theta Xi fraternity.

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Mailed: March 9, 1951
FOR RELEASE: Immediately

CHICAGO -- Morris Franks, son of Mr. and Mrs. Charles Franks, 121 N. Pine ave., has been elected treasurer of the Interfraternity council at Illinois Institute of Technology.

Franks is a senior in the mechanical engineering department. He is also a member of Tau Epsilon Phi fraternity, Pi Delta Epsilon, journalism honorary, Rough Castings, campus dramatic group, the Society of Automotive Engineers, the American Society of Mechanical Engineers, and is on the staff of Integral, Illinois Tech's yearbook.

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — Frederick A. Sanders, 7249 S. Union ave., has been elected president of the Interfraternity Council at Illinois Institute of Technology.

Sanders is a senior in the department of mechanical engineering. He is a member of Sigma Phi Epsilon fraternity, the Newman Club, and the American Society of Mechanical Engineers.

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — Joan Nehlsen, daughter of Mrs. Helen S. Nehlsen, 7344 W. Farwell ave., has been elected treasurer of the Panhellenic Council at Illinois Institute of Technology.

Miss Nehlsen is a sophomore at the Institute, majoring in biology. She is secretary of the sophomore class and a member of the Student Admissions Advisory Board.

-pap-

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — Mildred Schlosser, daughter of Mr. and Mrs. Aloys J. Schlosser, 4115 N. Francisco ave., has been elected president of the Panhellenic Council at Illinois Institute of Technology.

Miss Schlosser is a sophomore in the college, majoring in home economics. She is also a member of Kappa Phi Delta, social sorority, Illinois Tech Woman's Association, the Home Economics club, and the Girls Glee Club.

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — Anita Court, daughter of Mr. and Mrs. William F. Court, Box 56, Flossmoor, Ill., has been elected vice president and secretary of Panhellenic Council at Illinois Institute of Technology.

Miss Court is a junior in the college, majoring in biochemistry. She is a member of Delta Zeta sorority and the Newman Club.

-pap-

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — Harold Donko, son of Mr. and Mrs. Anton Donko, 6106 Ellis ave., has been elected vice chairman of the student chapter of the Society of Automotive Engineers at Illinois Institute of Technology.

Donko is a senior in the mechanical engineering department. He graduated from Hyde Park high school in January, 1948.

-pap-

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO — Irwin Jacobson, son of Mr. and Mrs. Jacob Jacobson, 7438 S. Colfax ave., has been elected chairman of the student chapter of the Society of Automotive Engineers at Illinois Institute of Technology.

Jacobson is a senior in the mechanical engineering department. He is also a member of Sigma Alpha Mu fraternity and the American Society of Mechanical Engineers.

-pap-

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- A complete radar unit with a range of 100 miles is being installed at Illinois Institute of Technology.

The unit will be used in advance electrical engineering courses to demonstrate principles and application of ultra-high frequencies.

While the unit, one of the largest naval airborne types developed in World War II, could be used in civil defense, it was designed for land and water search.

The equipment is being installed on the roof of the Main building, 33rd and Federal streets, under the direction of Chalres Benz, electrical engineering department technician, and Lewis Ebinger, department instructor.

The unit operates at an ultra-high frequency of 3,000 megacycles, and rotates at speeds up to 60 revolutions per minute. It was obtained through the War Assets Administration.

-jeg-

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Mailed: March 9, 1951
FOR RELEASE: Advance

ADVANCE FOR RELEASE MONDAY, MARCH 12, 1951

CHICAGO -- Seven holdover regulars will be among the nine returning lettermen on hand when the Illinois Tech baseball squad begins indoor practice today for its 1951 season.

The Techawks will open their 14-game schedule April 14 against Northwestern at Evanston.

Among the regulars on hand to cheer Coach Ed Glancy are veteran pitchers Capt. Bob Leiser and Bob Zevitz.

Leiser won 7 and lost 4 despite two 4-3 losses in 11 and 13 innings. He hurled a one-hit shutout against Lake Forest, and compiled a 2.42 earned run average. Zevitz, a lefty, won 4 and lost 1.

Lettermen will make up the varsity infield. Sophomore Fred Cassel is a fixture at first base. He led the team in hitting last year with a .483 average and in fielding with a .994 average.

Bob Sverak who hit .302 as a regular last year is back at shortstop, and "Ants" Whitfield, hustling utility infielder, has the inside track at second base. Lettermen Joe Bass and Hank Lokay will battle for the third base assignment.

Biggest problem facing Glancy is finding a catcher to replace Dave DeLazero who graduated in January. The job may fall to Bass unless one of several newcomers can take over.

Jerry Maatman and Tom Connors, both regulars, will hold two of the outfield posts. Both long-ball hitters, Maatman batted .291 and Connors .225. When he

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is not pitching, Leiser, a .418 hitter last season, will play center field.

The schedule:

April 18	Northwestern	Away
April 21	U. of Chicago	Away
April 24	Navy Pier	Home
April 28	Lake Forest	Away
April 30	Chicago Teachers	Home
May 3	U. of Chicago	Stagg Field
May 8	Concordia	Home
May 11	North Central	Away
May 15	Illinois Normal	Home
May 21	Navy Pier	Away
May 25-26	Chicagoland Tourney	Stagg Field
May 28	Chicago Teachers	Away
May 30	Concordia	Away

-jeg-

END ADVANCE FOR RELEASE MONDAY, MARCH 12, 1951

from

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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- The concert band, symphony orchestra, and men's glee club of Illinois Institute of Technology, Chicago, will present a concert at 2 p.m. April 3 at Lincoln high school, Lincoln, Ill.

O. Gordon Erickson will direct the groups.

The program will range from the classics to semi-popular numbers. Several solo numbers will be featured, including a novelty harmonica AND accordion duet. John Gallagher, clarinetist, will be soloist in Weber's "Concertino" with the concert band.

The glee club will feature two a cappella numbers, "Salvation Beloneth to Our God" and "Fierce was the Wild Bellows."

The orchestra will play a suite by Grieg among other numbers.

There are 100 students of Illinois Tech in the three organizations.

-pap-

from
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Director of Public Relations — James W. Armsey
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Mailed: March 9, 1951
FOR RELEASE: Immediate

CHICAGO -- Illinois Institute of Technology's concert band, symphony orchestra, and men's glee club will appear April 1 and 3 in concerts in Springfield.

First concert will be at the Central Baptist church at 7:30 p.m., April 1, and the second will be at the Springfield high school auditorium at 9:40 a.m., April 3.

The glee club will appear on the "Breakfast Hour" radio show at 8 a.m. April 2 over station WTAX. The program, broadcast from the St. Nicholas hotel, will include songs and interviews of members of the club.

O. Gordon Erickson will direct the groups.

Two a ~~cappella~~ CAPPELLA numbers, "Salvation Belongeth to Our God" and "Fierce was the Wild Bellows," will be featured by the glee club in all performances.

Sunday evening, April 1, the concert band will play Richard Strauss' "Dealth and Tranfiguration" and the orchestra will feature a suite by Greig. John Gallagher, clarinetist, will be soloist with the band in Weber's "Concertino."

-pap-

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Mailed: March 12, 1951
FOR RELEASE: Immediate

CHICAGO -- George Schum, 36, has been appointed admissions counselor at Illinois Institute of Technology. He has been assistant director of admissions at Lake Forest College, Lake Forest, since 1948.

During 1947 and early 1948, Schum did children's reacreation work with the Chicago Park System and with local YMCAs. He served as a fieldman for the Boy Scouts, and taught at Austin high school and and other Chicago public schools.

Schum was a captain in the air force form September, 1941 to December 1945, serving in Europe part of that time.

He received a bachelor of arts degree from Wheaton College, Wheaton, in February, 1947, and played varsity football and baseball for the college from 1939 through 1941. He attended Schurz high school and graduated from Kelvyn Park high school.

Schum and his wife, Gloria, and two children, George 7, and Claudia Jane, 4, live in Lake Forest.

-pap-

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Mailed: March 12, 1951
FOR RELEASE: Immediate

CHICAGO -- More than 2,500 engineers from the U.S. and Canada are expected to attend the 13th annual Midwest Power Conference April 4, 5, and 6 in the Sherman hotel, Chicago.

More than 60 papers on every phase of power production, transmission, and consumption will be presented at the 30 sessions of the conference.

The conference, largest of its kind, is sponsored by Illinois Institute of Technology and nine other Midwestern universities and nine local and national engineering societies.

Dr. R. A. Budenholzer, professor of mechanical engineering at Illinois Tech, is conference director. Dan A. Sullivan, Commonwealth Edison Company, heads a 22-man cooperating industry committee.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO — Emil Valovic, son of Mr. Stefan Valovic, 1329 N. Artesian ave., has been elected president of the Fire Protection Engineering Society at Illinois Institute of Technology.

Valovic is a senior in the college. He is also a member of the Lutheran Student Association, the swimming team, and Honor "I," athletic club.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- John M. Backer, son of Mrs. Mary A. Backer, 3729 Nortonia rd., Baltimore, has been elected president of the Midshipman's Club at Illinois Institute of Technology, Chicago.

The club is made up of members of the Naval Reserve Officers Training Corps.

Backer is a senior in the electrical engineering department, and is a member of the student chapter of the American Institute of Electrical Engineers. He is a graduate of Baltimore Polytechnic Institute.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- Leonard Carlman, son of Mr. and Mrs. Kenneth L. Carlman, 5247 W. Lake st., has been elected vice president of the Midshipman's Club at Illinois Institute of Technology.

The club is made up of members of the Naval Reserve Officers Training Corps.

Carlman is a senior in the civil engineering department. He is also a member of the swimming team, Daedalians fraternity, the Newman Club, Honor "I", athletic club, and the student chapter of the American Society of Civil Engineers.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- John Horwath, son of Mr. and Mrs. Colman Horwath, 1667 N. Bissell ave., has been elected secretary of the Midshipman's Club of Illinois Institute of Technology.

The club is made up of members of the Naval Reserve Officers Training Corps.

Horwath is a junior in the metallurgical engineering department. He graduated from Amundsen high school.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- Andrew Affrunti, 743 S. Kenneth ave., has been elected secretary and treasurer of the student chapter of the Society of Automotive Engineers at Illinois Institute of Technology.

Affrunti is a senior in the mechanical engineering department. He is also a member of the American Society of Mechanical Engineers. He is a graduate of Crane Technical high school.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- Sixteen northwest side students have been elected to offices in various social clubs and professional organizations at Illinois Institute of Technology.

The new electees will hold office until June. They are:

Wayne C. Christensen, 2805 N. Leavitt ave., secretary, Fire Protection and Safety Engineering Society; Morris A. Franks, 121 N. Pine ave., treasurer, Interfraternity Council; Frank K. Halwax, 5254 W. Fletcher st., president, Institute of Aeronautical Sciences.

Thomas C. Harden, 632 Patterson ave., vice chairman, student chapter of American Society of Mechanical Engineers; Harry J. Hummel, 284 Church, West Chicago, president, Institute of Radio Engineers; Carl A. Johnson, 3831 N. Paulina st., president, student chapter of American Institute of Mining and Metallurgical Engineers.

Raymond J. Kofoed, Jr., 3840 Roscoe st., vice president, student chapter of American Chemical Society; Larry W. Kunkel, 1712½ N. Humboldt blvd., vice president, Fire Protection and Safety Engineering Society; Charles F. Lukes, 3453 N. Page ave., treasurer, student chapter of American Society of Civil Engineers.

Joan Nehlsen, 7344 W. Farwell ave., treasurer, Panhellenic Council; Joseph M. Sandri, 5811 W. Henderson st., treasurer, student chapter of American Chemical Society; Mildred Schlosser, 4115 N. Francisco ave., president, Panhellenic Council.

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new officers of clubs--Illinois Tech, page two, northwest met. section

Marvin P. Schwartz, 1136 Kensington, Arlington Heights, vice president, Institute of Radio Engineers; Joseph S. Scott, Jr., 2010 Warner ave., president, student chapter of American Chemical Society; Frank B. Sikorski, 4217 W. Roscoe st., treasurer, student chapter of American Institute of Electrical Engineers; and Emil E. Valovic, 1329 N. Artesian ave., president, Fire Protection and Safety Engineering Society.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- Eleven southwest side students have been elected to offices in various clubs and professional organizations at Illinois Institute of Technology.

The new electees will hold office until June. They are:

Martin Cosgrove, 8507 S. Carpenter st., treasurer, student chapter of American Institute of Mining and Metallurgical Engineers; Anita Court, Box 56, Flossmoor, vice president and secretary, Pan-hellenic Council; Joseph B. Crow, Jr., 10600 Walden pkwy., vice president, student chapter of American Society of Civil Engineers.

Marilyn Jensen, 6540 S. Komensky ave., secretary, student chapter, American Chemical Society; Frank G. Opelka, 6048 S. Albany ave., vice chairman, student chapter of American Institute of Electrical Engineers; Lawrence Rawlings, 7524 S. May ave., secretary, Institute of Aeronautical Sciences.

Arthur L. Retzlaff, 6422 S. Paulina ave., vice president, Business and Economics Club; Robert L. Salley, 6419 S. Kedvale ave., vice president, student chapter of American Institute of Mining and Metallurgical Engineers; Frederick A. Sanders, 7249 S. Union ave., president, Interfraternity Council; Jack D. Summers, 2113 W. 120th pl., Blue Island, president, student chapter of American Society of Civil Engineers, and John T. Suska, 5126 S. Maplewood ave., chairman, student chapter of American Institute of Electrical Engineers.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- Nine south side students have been elected to offices in various clubs and professional organizations at Illinois Institute of Technology.

The new electees will hold office until June. They are:

Harold A. Donko, 6106 Ellis ave., vice chairman, Society of Automotive Engineers; Charles R. Gentzel, 7550 Saginaw ave., president, Business and Economics Club; Edward M. Grala, 8531 Burley ave., secretary, student chapter of American Institute of Mining and Metallurgical Engineers.

Gregory T. Haugan, 4500 S. Oakenwald ave., treasurer, Institute of Aeronautical Sciences; Irwin S. Jacobson, 7438 S. Colfax ave., chairman, Society of Automotive Engineers; Edmund G. Janssen, Jr., 8341 Paxton ave., chairman, student chapter of American Society of Mechanical Engineers.

Jack R. Piper, 5229 S. Greenwood ave., treasurer, student chapter of American Society of Mechanical Engineers; Victor R. Rengh, 4846 W. 43rd st., recording secretary, Business and Economics Club, and Peter Zelisko, 121 E. 79th st., corresponding secretary, Business and Economics Club.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- Seven west side students have been elected to offices in various social clubs and professional organizations at Illinois Institute of Technology.

The new electees will hold office until June. They are:

Andrew A. Affrunti, 743 S. Kenneth ave., secretary-treasurer, Society of Automotive Engineers; Leonard M. Carlman, 5247 W. Lake st., vice president, Midshipmen's Club of the Naval Reserve Officers' Training Corps; Leonard Delestrowicz, 5224 W. 31st st., Cicero, treasurer, Institute of Radio Engineers.

Frank Duda, 2322 S. St. Louis ave., treasurer, Business and Economics Club; Elaine Krause, 1157 S. Elmwood ave., Oak Park, secretary-treasurer, Illinois Tech Women's Association; Ursula Lier, 1033 N. Menard ave., president, Illinois Tech Women's Association, and Richard W. Verdon, 407 S. Lincoln st., Hinsdale, secretary, student chapter of American Society of Civil Engineers.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- Three north side students have been elected to offices in social clubs and a professional organization at Illinois Institute of Technology.

The new electees will hold office until June. They are:

John Horwath, 1667 N. Bissell ave., secretary, Midshipmen's Club of the Naval Reserve Officers' Training Corps; Henry Pahl, 1305 Barry ave., secretary, student chapter of the American Institute of Electrical Engineers, and Phyllis Thomas, 6441 N. Francisco ave., vice president, Illinois Tech Women's Association.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO — Jack Piper, son of Mr. and Mrs. R. L. Piper, 5229 S. Greenwood ave., has been elected treasurer of the student chapter of the American Society of Mechanical Engineers at Illinois Institute of Technology.

Piper is a senior in the college. He graduated from Hyde Park high school and attended the University of Illinois before coming to Illinois Tech.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- Thomas Harden, son of Mr. and Mrs. John E. Harden, 632 Patterson ave., has been elected vice chairman of the student chapter of the American Society of Mechanical Engineers at Illinois Institute of Technology.

Harden is a senior in the college. He is also a member of Alpha Phi Omega, service fraternity.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- John Deroche, son of Mr. and Mrs. Walter L. Deroche, McHenry, has been elected secretary of the student chapter of the American Society of Mechanical Engineers at Illinois Institute of Technology.

Deroche is a freshman in the college. He is also a member of Pi Kappa Phi, social fraternity.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- Edward M. Grala, son of Mr. and Mrs. Bronislaw Grala, 8531 Burley ave., has been elected secretary of the student chapter of the American Institute of Mining and Metallurgical Engineers at Illinois Institute of Technology.

Grala is a junior in the college. He is also a member of the wrestling team, Alpha Sigma Phi fraternity, the Polish club, and Alpha Phi Omega, service fraternity.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- Edmund Janssen, Jr., son of Mr. and Mrs. Janssen, 8341 Paxton ave., has been elected chairman of the student chapter of the American Society of Mechanical Engineers at Illinois Institute of Technology.

Janssen is also a member of Alpha Sigma Phi fraternity, the Interfraternity Council, the Society of Automotive Engineers, and Pi Tau Sigma, honorary fraternity. He graduated from Tilden Technical high school in January, 1947.

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March 13, 1951
Mailed: Immediate
FOR RELEASE:

CHICAGO -- Jack Summers, son of Mr. and Mrs. Chessman M. Summers, 2113 W. 120th pl., Blue Island, has been elected president of the Student chapter of the American Society of Civil Engineers at Illinois Institute of Technology.

Summers is a senior in the college. He graduated from Blue Island Commercial high school in May, 1944.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO — Joseph B. Crow, Jr., 10600 Walden pkwy., has been elected vice president of the student chapter of the American Society of Civil Engineers at Illinois Institute of Technology.

Crow is a senior in the college. He graduated from Morgan Park high school in January, 1943.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- Richard W. Verdon, 407 S. Lincoln st., Hinsdale, Ill., has been elected secretary of the student chapter of the American Society of Civil Engineers at Illinois Institute of Technology.

Verdon is a senior in the college. He graduated from Luther Institute, Chicago, in June, 1940.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO — Carl Johnson, son of Mr. and Mrs. C. B. Johnson, 3831 N. Paulina st., has been elected president of the student chapter of the American Institute of Mining and Metallurgical Engineers at Illinois Institute of Technology.

Johnson is a senior in the college. He is also a member of Theta Xi fraternity.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- Robert Salley, son of Mr. and Mrs. Leon J. Salley, 6419 S. Kedvale ave., has been elected vice president of the student chapter of the American Institute of Mining and Metallurgical Engineers at Illinois Institute of Technology.

Salley is a junior in the college. He graduated from St. Rita high school in June, 1948.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- Martin Cosgrove, son of Mr. and Mrs. Patrick J. Cosgrove, 8507 S. Carpenter st., has been elected treasurer of the student chapter of the American Institute of Mining and Metallurgical Engineers at Illinois Institute of Technology.

Cosgrove is a junior in the college. He graduated from Mt. Carmel high school in June, 1948.

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Mailed: March 13, 1951
FOR RELEASE: Immediate

CHICAGO -- Wayne Christenson, son of Mr. and Mrs. George Christenson, 2805 N. Leavitt ave., has been elected secretary of the Fire Protection Engineering Society at Illinois Institute of Technology.

Christenson is a junior in the college. He is also a member of Triangle fraternity and the Western Society of Engineers.

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Mailed: March 13, 1951

FOR RELEASE: Immediate

CHICAGO -- Students of Illinois Institute of Technology will celebrate St. Patrick's Day with the annual Interfraternity Ball.

The formal dance will be held at 9:30 p.m. Saturday (March 17) at the Tam O'Shanter country club.

Highlight of the dance will be the selection of the interfraternity queen. Each fraternity on campus has nominated a candidate. The panel of judges includes Howard Miller, disc jockey; Edward Harrell, manager of Patricia Steven's Modeling Agency, and Ed Glancy, asst. athletic coach of the Institute.

George Burnett's orchestra will supply music for the dancers.

About 200 couples are expected to attend, said Jack Kuzia, chairman of the prom committee.

Other members of the committee are Frank Sheehy, San Francisco, Calf.; Ed Janssen, 8341 Paxton ave., and Morris Franks, 121 N. Pine ave.

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Mailed: March 14, 1951
FOR RELEASE: Immediate

Note to Editorial Editors:

Inclosed is an analysis of the engineer manpower problem, prepared by Frank W. Edwards, director of the department of civil engineering at Illinois Institute of Technology, for the March 15 issue of the magazine, *American Engineer*, out about March 15.

I thought you might be interested in it as background material.

-- Jim Armsey

THE ENGINEER-POWER PROBLEM

by

F.W. Edwards, Director
Department of Civil Engineering
Illinois Institute of Technology.

The manpower problem, particularly that part dealing with the supply of professionally trained engineers, is a serious one. It seems probable that certain fallacies, accepted as truths by the general public as well as by many professional engineers, prevent an objective analysis and a realistic solution at the present time. Three of these fallacies which appear to be generally accepted may be stated as follows:

a) Military manpower alone contributes to the defense of the United States.

b) All military personnel make greater sacrifices during war periods than civilian personnel regardless of the positions occupied by individuals in each group.

c) Professional manpower for research, design, construction, and production in essential industry can be obtained from the residue after all military requirements are satisfied.

In an attempt to promote understanding of some of the factors involved, a discussion of these fallacies is presented. The discussion is limited to that part of the overall problem which might be termed engineer-power. If a comprehension of the forces which block a realistic solution can be reached, perhaps a reasonably satisfactory solution finally will be adopted.

Victory in World War II was achieved only as a result of the extraordinary rate of production attained by the so-called arsenal of democracy. Without the production of enormous supplies of materials and equipment and the transportation on schedule of these supplies to many parts of the world, the allied military organizations could not have won their objectives. It is significant also that

during the war period research scientists and engineers developed entirely new and improved facilities for use by the armed services.

Quoting from Vannevar Bush:(1)

> "One of the most gratifying expressions of success of the scientific effort in the war is to be found in the attitudes of the Armed Services. Both Secretary of War Henry L. Stimson and Secretary of the Navy Frank Knox indicated their satisfaction over what joint efforts had accomplished in terms of operations. When the story can be told in full, it will be dramatic, and it will reflect the vigorous efforts of a great group of men, employing the best teamwork in the common cause. It will show without any doubt that the devices developed by American scientists and engineers played an important part in bringing the war to successful conclusion in a shorter time than might otherwise have been the case."

High rates of production, new materials, new methods, and new products resulted from the application of scientific principles and technical knowledge by trained engineers and scientists in many industries. The list of industries considered essential to the war effort in 1944 is imposing and illustrates the importance of these civilian activities. The list includes:

> Aircraft, boats, ordinance, ammunitions, food processing, forest products, construction, rolling metal, metal shaping and finishing, coal mining, metal mining, smelting, refining, industrial and agriculture equipment, machinery, chemical and allied products, rubber, leather, textiles, clay, glass, petroleum, transportation services, paper, shipping and preserving, communication equipment and services, heating, power and water supply.

There were others. All of these industries required the services that only professional engineers can furnish.

(1) Bush, Vannevar, "Endless Horizons", Public Affairs Press, 1946 page 124

New materials developed as a result of applying technological methods during World War II included such items as synthetic rubber, aviation gasoline, numerous plastics, magnesium and aluminum applications, alloy steels and plywoods. Discovery of new materials and new processes is only the first step toward development of finished products on an economical commercial basis. These and other materials could not have been produced in large quantities without the research, design, and production procedures developed by competent technical personnel.

In addition to the creation of new materials for economical production, engineers and scientists developed new methods and new products which were effective in building an invincible fighting machine. New methods included simplification of joining metal by riveting, welding, and stitching, metal spinning, powder metallurgy, centrifugal casting, continuous casting and metal spraying. New products included various types of aircraft, including those using jet propulsion, and appurtenances such as armament, bomb-sights and navigation devices. The gas turbine and electron microscope as well as radar and processed foods should be added.

Professional engineers are intimately associated with all of the above industries and are responsible for the technological development, the maintenance, and the operation of them. They also are responsible for military and industrial construction operations including such projects as atomic energy plants, army camps, airfields, shipyards, dry docks, and numerous other military and essential civilian installations. A large pool of civilian professional engineers is needed to keep essential industries producing at maximum capacity in order to equip and supply the military organizations.

Both military and civilian manpower contribute to the defense of the country. Professional engineers in essential civilian positions contribute in an unusually

effective manner to a defense program. Again quoting from Bush(2)

> "There are great areas where civilian organizations can operate to better advantage, and this has been our accepted policy. The joints may creak at times, and there is bound to be confusion simply in view of the enormous magnitude of the job involved, but in general we get along faster when civilian organization produces the weapons with which the Army and Navy fight. The same advantage may be cited for civilian research and development, collaborating closely with the armed services, and meeting their needs as far as is physically possible, but acting with that flexibility and freedom which come from independent organization."

Possibly less tangible evidence can be cited to disprove the second fallacy. Individual experiences vary. No satisfactory reparation can be made for loss of life in the military service, nor for impairment of health or physical well being. Roughly ten per cent of the personnel in the armed forces in World War II were in this category. There is no intention of minimizing the sacrifices and the services rendered by this group which not only gave more than civilians, but more than their military associates as well. The fallacy is in the belief that all military personnel make greater sacrifices than those technically trained civilians who may be deferred for essential positions. It is true that many in the military service who were not in actual combat, also sacrificed much, both financially and otherwise. Many families had their lives uprooted. Homes were abandoned while wives and children lived with parents and grandparents respectively. In other cases the family followed the man in service from station to station and as a result was required to live in high cost areas under abnormally crowded conditions. Many cases of this kind are known.

On the other hand, it is well known, also, that many civilians working in essential positions were subjected to the same hardships and the same reduction of living standards experienced by the military men and their families. Furthermore there are many instances of individuals in the armed services who

enjoyed better salaries, more responsible positions, and a higher standard of living than they experienced in civilian life. In many cases military and civilian personnel during the war worked side by side on the same product. It should be realized that many individuals in the military forces perform essentially civilian functions. A high percentage is in this category. At the peak of military mobilization in 1945 one third of the personnel was stationed in the U.S. Supply and other necessary functions absorbed many of the remainder, thus reducing further the number actually located in combat areas. Numerous benefits accorded veterans since the war, without distinction between the types of military service rendered, further emphasize the belief that not all, or possibly even a majority, in the military service sacrificed more than a vast group of persons who occupied responsible positions in a professional capacity. The difference between the sacrifices made by military and civilian personnel must be judged on an individual rather than a collective basis.

In any future conflict the differences may be even less than they were during the last war. Civilians in the United States, particularly those located in industrial areas, have slight chance of being spared the terror which has been experienced only by those on combat duty in the past. Sacrifices of varying degree will be made by both military and civilian personnel.

The third fallacy assumes that engineer-power for research, design, construction, and production can be obtained from the residue after military requirements have been met. To believe this is to ignore the facts. The number of persons in professional engineering has been increasing rapidly during the past few years. The increase can be attributed to an expansion of highly technical industries which in 1950 absorbed approximately 50,000 new graduates from

engineering schools. A year earlier the number of graduates employed approached this same figure. At the present time employers are competing energetically for the services of the 30,000 prospective graduates in 1951. The experience of the past two years indicates that the present demand exceeds greatly that of the pre-war period. Prior to the war the demand approached 20,000 graduates annually. It seems reasonable to assume that a fair estimate of requirements for the next decade would be in the neighborhood of 30,000 engineering graduates annually. This may be a conservative figure.

The estimated supply of engineering graduates for the next few years is indicated in the following tabulation. Column (3) indicates the estimated number of graduates if selective service takes none from these ranks. Estimates vary somewhat depending on the basic assumptions, but the numbers shown are believed to be the maximum which can be made available. These figures will be reduced by Selective Service withdrawals.

	Number of Graduates Annually	
(1) Year	(2) Required	(3) Available assuming no Withdrawals by Selective Service
1952	30,000	25,000
1954	30,000	14,500
1956	30,000	13,500
1958	30,000	13,500
1960	30,000	14,000

These data indicate clearly that the supply of new graduates will fall far short of the requirements for at least the next ten years. The large difference between supply and demand presents a real threat to the military security of the nation which is so closely tied to industrial production and professional competence. The shortage cannot be prevented. The low birth rate during the depression years effectively controlled that possibility.

The situation can be alleviated only if more students are encouraged to enroll in engineering colleges, are allowed to complete their formal education, and then are placed in industry to gain experience. The engineer-power situation will be improved very little if immediately after graduation these trained but inexperienced engineers are inducted into the military service and used in non-professional jobs.

There are, of course, many positions in the military service which require professionally trained engineers. These positions increase the demand for engineer-power and compete with civilian industry for the scant supply available. Based on the ratio of men in the armed forces to the men in civilian employment at the peaks in 1945 (approximately 12,000,000 and 35,000,000 respectively) and on the functions performed, it seems evident that the number of engineers required in the military service would be much smaller than the number required in industry. Recent data indicate that twenty seven per cent of the engineers in the armed forces in World War II had no opportunity to use their technical abilities. Others reported that their technical experience was used only slightly. These observations indicate that the number of professional engineers in the military service in 1941-46 either exceeded the requirements or that a high percentage was misassigned.

The supply of engineers, because it was cut off at the source, dried up quickly during World War II. Fewer than 5000 were graduated in 1945. This result might well have been disasterous if the war had continued for a longer period of time. Under present circumstances the supply would dry up much quicker because a shortage of engineers already exists. An adequate supply cannot be obtained under the most favorable circumstances, much less from the residue after all military requirements are satisfied.

The fallacies discussed here create a block to an objective analysis of the

engineer-power problem. Because they are assumed to be truths by many, no one wants to accept the responsibility for saying who shall be deferred and who shall be inducted into the armed service. Unjustifiable criticism is directed toward those making such decisions. But difficult decisions must be made all along the line. From the question, "who shall be inducted?" to "who shall be sent to the battle front?" and "who shall be dispatched on the most dangerous missions?", decisions must be made on the basis of the best information available. Data are available now which show without doubt that everything possible must be done to increase the supply of engineers.

A blind following of fallacies must be avoided as they lead to the erroneous conclusion that all men who are deferred are exempt from contributing their full share to the defense effort. Conservation of the entire manpower supply is the important consideration. It seems prudent to defer individuals who may by their work provide the superior materials and equipment which will assure victory in any conflict in the shortest time possible.

The question has been asked in congress, "Where are we going to get the men for military service if some groups are deferred?" To this might be replied, "Where can we get the trained engineers to do research, design, construction, and production work, engineers who have demonstrated that they can replace men with equipment and effectively reduce the number of military personnel required?" Because of the short-sighted policy adopted during the last war a dearth of engineering talent now exists in the 5 to 10 year experience bracket. In August 1950, the Department of Labor placed all branches of engineering on the critical occupation list.

Would it not be better to have one soldier with sufficient equipment to

stop ten of the enemy than it would to have three soldiers without superior weapons and equipment try to stop those same ten? It is well known that the U. S. cannot match a potential enemy man for man, therefore, it must excel with a combination of men and equipment. The decisions regarding deferment could be made easily if it were not for the fallacies!

For publication in American Engineer March 1951

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- A few warm days caused a sharp decrease in the number of tons of dust which blanketed Chicago's buildings, residents, and streets during February. An average of 84½ tons descended on every square mile within the city limits.

"The January dust fall, which averaged 109 tons per square mile, was unusually heavy and probably can be blamed on the sub-zero weather," Maurice Kayner, chief analytical chemist at Armour Research Foundation of Illinois Institute of Technology, said today.

Slightly warmer February weather meant that homeowners burned smaller quantities of soft coal, Kayner explained.

Each month as a public service the Foundation measures and analyzes the dust collected at 24 sampling stations for the Chicago smoke inspection and abatement department.

The heaviest dustfall was in the vicinity of the Fair Store station where 304 tons fell. The city's cleanest spot was the area around 7350 Pratt, where only 11 tons fell.

Here is the tonnage-fall as recorded at the various collecting stations:

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Jar No.	Address of Station	Ward No.	Total Dustfall
1.	The Fair Store	1	304.62
2.	33 N. LaSalle	1	116.12
	Loop Average		210.37
3.	2135 S. Michigan	1	105.54
4.	825 E. 44th	4	98.23
5.	1362 E. 59th	5	57.78
6.	7531 Stony Island	7	124.03
7.	67 W. 113th Pl.	9	43.01
8.	8858 Marquette	10	111.60
9.	6314 S. Troy	13	63.21
10.	62nd & Linder	13	56.07
11.	7559 Eggleston	17	59.02
12.	1620 W. 99th	19	29.68
13.	3608 Ogden	22	106.14
14.	1500 W. Monroe	26	125.04
15.	5055 Fulton	30	54.09
16.	2940 Cortland	32	83.14
17.	3312 Belle Plaine	40	76.37
18.	7350 Pratt	41	11.30
19.	54 W. Hubbard	42	130.23
20.	551 Grant Pl.	44	121.76
21.	3532 Sheffield	46	67.74
22.	1622 Pratt Blvd.	49	40.65
23.	427 S. LaSalle	1	302.52
24.	2240 W. 37th		85.64
	Average		84.54

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- The nation's security is endangered by the government's failure to change its short-sighted policy on the use of scientific and engineering manpower.

That contention was advanced by a leading engineering educator in an article appearing this week in the March issue of American Engineer.

Frank W. Edwards, director of the civil engineering department at Illinois Institute of Technology, blamed policies originating during World War II for today's limited supply of much-needed engineering and scientific talent.

Making a plea for judicious use of manpower in all categories, Edwards said that superior technological skill is the only path to victory in another world war.

He called upon national manpower officials to insure adequate engineers and scientists by encouraging engineering education, defering engineering students, and using engineers efficiently.

"Twenty-seven per cent of technologically skilled personnel in the armed forces during World War II had no opportunity to use their special abilities. Others with other necessary skills used their talents only slightly," he said.

This is an obvious waste of manpower and must be avoided at all cost if the nation again fights a major war.

"We cannot match a potential enemy man for man. We must excel with a combination of men and equipment. And we can't get the equipment without using every scientifically qualified man we have."

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It takes research engineers and scientists to develop new materials, new methods, new products, and new weapons upon which the country's lifeblood depends, he wrote. "Let's not waste them."

"No one wants to accept the responsibility for saying who shall be deferred and who shall be inducted. Unjustifiable criticism is directed toward those making such decisions, but it seems prudent to defer individuals who provide the superior materials and equipment which will assure victory in the shortest possible time.

"Isn't it better," Edwards concluded, "to have one soldier with sufficient equipment to stop ten of the enemy than have three soldiers without superior equipment try to stop those same ten?"

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Six west side students have been appointed senior counselors at Illinois Institute of Technology.

They are Bert M. Cohn, Aurora; Martin Hoeft, Maywood; Marilyn Knudson, Oak Park; Clifford D. Nelsen, Des Plaines; Jack Stroube, Elmhurst; and Fred R. Wright, 1844 W. Jackson blvd. The counselors have each been assigned five entering students whom they will assist in campus activities and academic problems.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Two southwest area students have been appointed senior counselors at Illinois Institute of Technology.

They are Leslie Hymes, 7732 S. Wood st., and Robert W. Piercy, Joliet, Ill. The counselors have each been assigned five entering students whom they will assist in campus activities and academic problems.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Three northwest side students have been appointed senior counselors at Illinois Institute of Technology.

They are Howard Berkowitz, 7001 Altgeld st., Morris Franks, 121 N. Pine ave., and James W. Gewartowski, 2642 N. Lawndale ave. The counselors have each been assigned five entering students whom they will assist in campus activities and academic problems.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Two north side students have been appointed senior counselors at Illinois Institute of Technology.

They are William P. Comis, 6210 N. Wayne ave., and James E. Golden, 1440 Elmdale ave. The counselors have each been assigned five entering students whom they will assist in campus activities and academic problems.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Two south side students have been appointed senior counselors at Illinois Institute of Technology.

They are George Aravosis, 846 E. 55th st., and Frank L. Curtis, 6436 Blackstone ave. The counselors have each been assigned five entering students whom they will assist in campus activities and academic problems.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Robert Piercy, son of Mr. and Mrs. Thomas W. Piercy, 611 Collins st., Joliet, has been appointed a senior counselor at Illinois Institute of Technology.

He is a junior in the Institute's chemical engineering department. As counselor, he has been assigned five freshmen students whom he will assist with academic problems and advise on campus clubs and activities.

Piercy is a member of Triangle fraternity. He is a graduate of Joliet Catholic high school, and attended St. Mary's College.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO — Fred Wright, son of Mrs. Rosann Wright, 1844 W. Jackson blvd., has been appointed a senior counselor at Illinois Institute of Technology.

Wright is a student in the industrial engineering department. As counselor, he has been assigned five entering students whom he will assist in academic problems and advise on campus activities.

He is a member of the staff of Integral, the student year book, and Technology News, student newspaper. He graduated from Crane Technical high school in 1948.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Martin Hoeft, 1923 S. 23rd ave., Maywood, has been appointed a senior counselor at Illinois Institute of Technology.

As counselor, he has been assigned five entering students whom he will assist with academic problems and advise on campus clubs and activities.

Hoeft, a senior in the industrial engineering department, is a member of Delta Tau Delta fraternity.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Miss Marilyn Knudson, daughter of Mr. and Mrs. Paul M. Knudson, 337 S. Cuyler, Oak Park, has been appointed a senior counselor at Illinois Institute of Technology.

She is a junior at the Institute of Design, a department of Illinois Tech. As counselor, she has been assigned five entering students whom she will assist with academic problems and advise on campus activities.

Miss Knudson is a graduate of Oak Park high school.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Bert M. Cohn, son of Mr. and Mrs. Egon Cohn, 445 Fifth st., Aurora, has been appointed a senior counselor at Illinois Institute of Technology.

Cohn is a junior in the fire protection and safety engineering department. As counselor, he has been assigned five entering students whom he will assist with academic problems and advise on campus activities.

Cohn's other school activities include membership in Alpha Epsilon Pi, social fraternity, Salamander, honorary fraternity, and the Technology Film Unit. He is on the staff of Tech News, campus newspaper.

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March 16, 1951
Immediate

Mailed:
FOR RELEASE:

CHICAGO — Patricia Downing, daughter of Mr. and Mrs. Wilbur J. Downing, 4731 S. Jeffery blvd., has been appointed a senior counselor at Illinois Institute of Technology.

Miss Downing is in the home economics department of the Institute. As counselor, she has been assigned five entering students whom she will advise on campus activities and assist with academic problems.

Miss Downing's other school activities include membership in the Illinois Tech Women's Association, the Student Union Committee, and Home Economics club. She is on the staff of Integral, school yearbook. She is a graduate of South Shore high school.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Evert Saxe, 410 Sawyer st., Rockford, has been appointed a senior counselor at Illinois Institute of Technology, Chicago.

Saxe is in the civil engineering department of the Institute. As counselor, he has been assigned five entering students whom he assists in academic problems and advises on campus activities.

Saxe's other student activities include Tau Beta Pi, national engineering honorary fraternity, Chi Epsilon, national civil engineering honorary fraternity, student chapter of the American Society of Civl Engineers, and president of Farr Hall, student residence hall. He graduated from Rockford East high school in 1943.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- James Ham, son of Mr. and Mrs. A. R. Ham, 517 Lake st. Ishpeming, has been appointed senior counselor at Illinois Institute of Technology, Chicago.

Ham is a junior in shelter design at the Institute of Design of the college.

As counselor, he has been assigned five entering students whom he will assist in academic problems and advise on campus activities. He graduated from Ishpeming high school in 1948.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- John Scannell, son of Mr. and Mrs. Anthony Scannell, Elgin, has been appointed a senior counselor at Illinois Institute of Technology, Chicago.

Scannell is a senior in the electrical engineering department. As counselor, he has been assigned five entering students whom he will assist in academic problems and advise on campus activities.

Scannell's other school activities include Tau Beta Pi, national engineering honorary fraternity, Eta Kappa Nu, National electrical engineering honorary fraternity, Pi Delta Epsilon, national journalistic fraternity, and he is editor-in-chief of *Technology News*, the student newspaper. He graduated from Elgin Public high school in 1943.

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Mailed: March 16, 1951
FOR RELEASE: Immediately

CHICAGO -- Robert Zevitz, son of Mr. Samuel Zevitz, 311 N. 28th ave., Omaha, Neb., has been appointed a senior counselor at Illinois Institute of Technology, Chicago.

Zevitz is in the mechanical engineering department at the Institute. As counselor, he has been assigned five entering students whom he will advise on campus activities and assist in academic problems.

Zevitz' other school activities include membership in the American Society of Mechanical Engineers, chairman of the student publications board, secretary of the senior class, pitcher on the varsity baseball team, and copy editor of the college newspaper.

He graduated from Omaha Central high school in 1947.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Howard Berkovitz, son of Mr. and Mrs. Samuel Berkowitz, 7001 Altgeld st., has been appointed a senior counselor at Illinois Institute of Technology.

Berkovitz is in the electrical engineering department of the Institute. As a counselor, he has been assigned five entering students whom he will assist with academic problems and advise on campus activities. He is a member of Tau Epsilon Phi fraternity. He graduated from Austin high school in 1945.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Jack R. Stroube, son of Mr. and Mrs. R. A. Stroube, 465 Mitchell, Elmhurst, has been appointed a senior counselor at Illinois Institute of Technology.

Stroube is a senior in the fire protection and safety engineering department of the Institute. As counselor, he has been assigned five entering students whom he will assist with academic problems and advise on campus activities.

Stroube's other activities include Phi Kappa Sigma, social fraternity, and the Fire Protection Engineering Society.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- James E. Golden, son of Mr. and Mrs. B. A. Golden, 1440 Elmdale ave., has been appointed a senior counselor at Illinois Institute of Technology.

Golden is a student at the Institute of Design, now a department of Illinois Tech. As counselor, he has been assigned five entering students whom he will assist in academic problems and advise on campus activities.

He is a graduate of Senn high school and has attended the University of Chicago.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Clifford Nelsen, son of Mr. and Mrs. D. B. Nelsen, 1707 Algonquin road, Des Plaines, has been appointed a senior counselor at Illinois Institute of Technology.

Nelsen is a student in the metallurgical engineering department. As counselor, he has been assigned five entering students whom he will assist in academic problems and advise on campus activities.

Nelsen's other activities include membership in Triangle fraternity, student chapter of the American Institute of Mining and Metallurgical Engineers, Pi Delta Epsilon, national journalistic fraternity, Technology News, the student newspaper. He is business manager of Integral, the college yearbook. He graduated from Maine Township high school.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Morris A. Franks, son of Mr. and Mrs. Charles Franks, 121 N. Pine ave., has been appointed a senior counselor at Illinois Institute of Technology.

He is a senior in the mechanical engineering department. As counselor, he has been assigned five entering students whom he will assist with academic problems and advise on campus activities.

Franks' other activities include membership in Rough Castings, dramatic club, the Society of Automotive Engineers, the student chapter of the American Society of Mechanical Engineers, Pi Delta Epsilon, honorary fraternity, Tau Epsilon Phi, social fraternity, and Alpha Phi Omega, service fraternity. He is also a member of the staff of Integral, school yearbook.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- William P. Comis, son of Mr. and Mrs. Peter Comis, 6210 N. Wayne ave., has been appointed a senior counselor at Illinois Institute of Technology.

Comis is in the chemical engineering department. As counselor, he has been assigned five freshmen students whom he will assist in academic problems and advise on campus activities.

Comis' other activities include membership in the Publications Board, Illinois Tech Students Association, Triangle fraternity, the Newman Club, and the student chapter of the American Institute of Chemical Engineers. He is a graduate of Senn high school.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO — Frank L. Curtis, 6436 Blackstone ave., has been appointed a senior counselor at Illinois Institute of Technology.

Curtis is a student in the industrial engineering department at Illinois Tech. As counselor, he has been assigned five freshman students whom he will assist in academic problems and advise on campus activities.

Curtis' other activities include membership in Tau Beta Phi, Pi Delta Epsilon, and Sigma Iota Epsilon, honorary fraternities, Armour Eye, camera club, and _Who's Who in American Colleges_. He is on the staffs of _Tech News_ and _Integral_, campus publications.

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March 16, 1951

Mailed:

FOR RELEASE: Immediate

CHICAGO -- George Aravosis, son of Mr. and Mrs. Demetrios Aravosis, 846 E. 55th st., has been appointed a senior counselor at Illinois Institute of Technology.

Aravosis is in the Institute's mechanical engineering department. As counselor, he has been assigned five entering students whom he will assist with academic problems and advise on campus activities.

Aravosis' other campus activities include membership in the student chapter of the American Society of Mechanical Engineers, the senior social committee, and Delta Lambda Xi, social fraternity. He is on intramural and fraternity basketball and baseball teams. He graduated from Hyde Park high school in June, 1947.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- James W. Gewartowski, son of Mr. and Mrs. J. W. Gewartowski, 2642 N. Lawndale ave., has been appointed a senior counselor at Illinois Institute of Technology.

He is a junior in the electrical engineering department. As counselor, he has been assigned five entering students whom he will assist with academic problems and advise on campus activities.

Gewartowski is a member of Delta Lambda Xi, social fraternity, Phi Eta Sigma, Tau Beta Pi, Pi Delta Epsilon, Eta Kappa Nu, honorary fraternities, and the student chapter of the American Institute of Electrical Engineers. He is on the staff of Integral, yearbook.

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Mailed: March 16, 1951
FOR RELEASE: Immediate

CHICAGO -- Leslie C. Hymes, son of Mr. and Mrs. Walter Hymes, 7732 S. Wood st., has been appointed a senior counselor at Illinois Institute of Technology.

He is a junior in the metallurgical engineering department of the Institute. As counselor, he has been assigned five freshman students whom he will assist with academic problems and advise on campus activities.

Hymes' other school activities include membership in Triangle fraternity, Pi Delta Epsilon, honorary fraternity, and the student chapter of the American Institute of Mining and Metallurgical Engineers. He is business manager of Tech News, student newspaper.

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Mailed: March 19, 1951
FOR RELEASE: Immediately

CHICAGO -- Engineering students will put aside their slide rules and take up the mask and lyre early next month for this semester's presentation of the Campus Players, dramatic club of Illinois Institute of Technology.

The play is "Death Takes a Holiday," by Alberto Casella, rewritten for the American stage by Walter Ferris. It will be presented at 8 p.m., April 5, 6, and 7 in the Student Union auditorium. Director is Henry Knepler, instructor in the college.

John DiFrancesco, Lyndhurst, O., a sophomore in the physics department, is producer.

Female roles will be filled by students in the home economics, psychology, and chemical engineering departments, and college administrative workers.

Members of the cast are:

Ursula Lier, 1033 N. Menard ave., as Cora; Roland Bellman, 4418 N. Major ave., as Fedele; Joseph Krofta, Kewaunee, Wis., as the Duke; Lillian Green, 6923 East End ave., as Alda; Florence Fischer, 1905 E. 72nd st., as the Duchess.

Muriel Paller, 3268 W. Armitage ave., as the Princess; Roger Bills, Rockford, Ill., as the Baron; Charlene Robinson, 10841 Maplewood ave., as Rhoda; Keith Wingate, Topeka, Kan., as Eric; Marvin Feldman, Brooklyn, N. Y., as Corrado.

Suzanne Feld, 1619 S. Ridgeway ave., as Grazia; Robert Elliot, 1132 W. Lunt ave., as Shadow, and Arthur Blankenburg, Hammond, Ind., as Major.

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Mailed: March 19, 1951
FOR RELEASE: Immediate

CHICAGO -- Charlene Robinson, daughter of Mr. Walter Robinson, 10841 Maplewood ave., will play the part of Rhoda in a campus production of "Death Takes a Holiday" at Illinois Institute of Technology. The play will be presented at 8 p.m., April 5, 6, and 7, in the Student Union auditorium.

Miss Robinson is a senior in the home economics department of the college. She is treasurer of Sigma Kappa sorority, and a member of the Home Economics Club.

She graduated from Chicago Christian high school in 1947.

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Mailed: March 19, 1951
FOR RELEASE: Immediate

CHICAGO -- Arthur Blankenburg, son of Mr. and Mrs. W. F. Blankenburg, 908 Bauer st., Hammond, Ind., will portray the part of the Major in the campus presentation of "Death Takes a Holiday" at Illinois Institute of Technology, Chicago. Three performances will be given at 8 p.m., April 5, 6, and 7 in the Student Union auditorium.

Blankenburg is a freshman in the Institute of Design of the college. His other activities include Phi Kappa Sigma fraternity and Alpha Phi Omega service organization.

He graduated from Hammond high school in 1950.

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Mailed: March 19, 1951
FOR RELEASE: Immediate

CHICAGO -- Joseph Krofta, son of Mr. J. V. Krofta, Route 1, Kewanee, will portray the part of the Duke in a forthcoming campus presentation of "Death Takes a Holiday" at Illinois Institute of Technology, Chicago.

Krofta is a sophomore in the architecture department of the Institute. He graduated from Kewanee high school in 1941.

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Mailed: March 19, 1951
FOR RELEASE: Immediate

CHICAGO -- Mrs. Lillian Green, 6923 East End ave., will portray the part of Alda in the campus presentation of "Death Takes a Holiday" at Illinois Institute of Technology. Three performances will be given at 8 p.m. April 5,6, and 7 in the Student Union auditorium.

Mrs. Green is an administrative assistant in the registrar's office of the Institute.

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Mailed: March 19, 1951
FOR RELEASE: Immediate

CHICAGO — Robert Elliot, 1132 W. Lunt ave., will portray the part of the Shadow in the campus presentation of "Death Takes a Holiday" at Illinois Institute of Technology. The play will be given at 8 p.m., April 5, 6, and 7 in the Student Union auditorium.

Elliot is a freshman in the Institute of Design of the college.

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Mailed: March 19, 1951
FOR RELEASE: Immediate

CHICAGO -- Florence Fischer, 1905 E. 72nd st., will portray the part of the Duchess in a campus presentation of "Death Takes a Holiday" at Illinois Institute of Technology. Three performances will be given at 8 p.m., April 5, 6, and 7 in the Student Union auditorium.

Miss Fischer is a clerk in the Registrar's office of the Institute.

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Mailed: March 19, 1951
FOR RELEASE: Immediate

CHICAGO -- John DiFrancisco, son of Mr. and Mrs. Fedele DiFrancisco, 1535 Commodore road, Lynhurst, will produce the forthcoming campus presentation of "Death Takes a Holiday" at Illinois Institute of Technology, Chicago.

DiFrancisco is a sophomore in the physics department of the Institute. He is also a member of Pi Kappa Phi fraternity and the Newman Club. He graduated from Brush high school, South Euclid, in 1949.

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Mailed: March 19, 1951
FOR RELEASE: Immediate

CHICAGO -- Ursula Lier, daughter of Mr. and Mrs. C. F. Lier, 1033 N. Menard ave., will portray the part of Cora in the campus presentation of "Death Takes a Holiday" at Illinois Institute of Technology. Three performances will be given at 8 p.m., April 5, 6, and 7 in the Student Union auditorium.

Miss Lier is a senior in the home economics department of the Institute. She is president of Illinois Tech Women's Association, president of Sigma Kappa sorority, and a member of the Home Economics Club.

She graduated from Austin high school in 1947.

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Mailed: March 19, 1951
FOR RELEASE: Immediate

CHICAGO -- Suzanne Feld, daughter of Mr. and Mrs. Jack Feld, 1619 S. Ridgeway ave., will portray the part of Corrado in the campus presentation of "Death Takes a Holiday" at Illinois Institute of Technology. Three performances of the play will be given at 8 p.m., April 5, 6, and 7 in the Student Union auditorium.

Miss Feld is a freshman in the psychology department of the Institute. She is a cheerleader and is on the staff of the student newspaper. She graduated from Marshall high school in 1950.

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Mailed: March 19, 1951
FOR RELEASE: Immediate

CHICAGO -- Muriel Faller, 3268 W. Armitage ave., will portray the part of Princess in the campus presentation of "Death Takes a Holiday" at Illinois Institute of Technology. Three performances will be given at 8 p.m. on April 5, 6, and 7 in the Student Union auditorium.

Miss Faller is a senior in the chemical engineering department of the Institute.

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Mailed: March 19, 1951
FOR RELEASE: Immediate

CHICAGO -- Roger Bills, son of Mr. and Mrs. L. D. Bills, 1215 20th st., Rockford, will portray the part of the Baron in the forthcoming campus presentation of "Death Takes a Holiday" at Illinois Institute of Technology, Chicago.

Bills is a senior in the business and economics department of the Institute. He graduated from East Rockford high school in 1945.

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Mailed: March 19, 1951
FOR RELEASE: Immediate

CHICAGO -- Keith Wingate, son of Mr. and Mrs. F. E. Wingate, 2076 Washburn ave., Topeka, will portray the part of Eric in the forthcoming campus production of "Death Takes a Holiday" at Illinois Institute of Technology, Chicago.

Wingate is a junior in the fire protection and safety engineering department of the Institute. He is vice president of the junior class, a member of the track team, and of Delta Tau Delta fraternity.

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Mailed: March 19, 1951
FOR RELEASE: Immediate

CHICAGO -- Roland Bellman, son of Mr. and Mrs. R. F. Bellman, 4418 N. Major ave., will protray the part of Fedele in the campus presentation of "Death Takes a Holiday" at Illinois Institute of Technology. Three performances will be given at 8 p.m., April 5, 6, and 7 in the Student Union auditorium.

Bellman is a junior in the fire protection and safety engineering department of the Institute. He is also a member of the college swimming team, the Fire Protection and Safety Engineering Society, and Delta Lambda Xi fraternity.

He graduated from Schurz high school in 1948.

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March 19, 1951

Special to Look Magazine
488 Madison Avenue
New York 22, New York

Look Applauds:

Ludwig Mies van der Rohe

The world famous architect who designed the 110-acre campus now under construction at Illinois Institute of Technology, the twin apartment buildings at 860-80 N. Lake Shore dr., and the Promontory Apartments at 55th st. and South Shore dr., Chicago, Illinois.

About 20 structures will be built on the Illinois Tech campus, of which 11 research, laboratory, and residence buildings are finished. The project represents his biggest undertaking in America, and also marks the first modern American campus ever built as a single, conforming architectural unit.

"Skin and bones architecture," is how Mies describes his own design. "I have always wanted to express a building as it really is," he says. "I don't want to hide its structure."

His buildings at the Institute have no decoration except that formed by the character and juxtaposition of the structural elements. They are structures of exposed "U" and "I" shaped columns, bare brick panels, and huge rectangular-shaped windows.

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Mies was born in 1886 in Anchen, on the border of Germany and the Low Countries. He never received any formal architectural training, but learned his first lesson of building--the placing of stone on stone--from his father, a master stone mason.

Mies' world-wide reputation was attained chiefly through seven European projects: the first glass skyscraper, 1919; the second glass skyscraper, 1920-21; a glass and concrete office building, 1922; a brick country house, 1923; a concrete country house, 1924; and the Barcelona Pavilion and Tugendhat House in Brno, Czechoslovakia, 1930.

In 1930, he was named director of the Bauhaus school, Dessau, on the recommendation of its former director, Walter Gropius. In 1931, he was appointed a professor at the Prussian Academy of Arts and Sciences.

He has headed Illinois Tech's department of architecture since he came to this country in 1938. Mies became an American citizen in 1944.

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Mailed: March 21, 1951
FOR RELEASE: Immediate

Authors of papers to be presented at the 1951 National Electronics Conference should submit titles and 200-word abstracts to J. D. Ryder, chairman of the program committee, not later than May 15.

Titles and abstracts should be sent to Mr. Ryder at the Electrical Engineering department, University of Illinois, Urbana, Illinois.

The seventh annual conference will be held October 22, 23, and 24 at the Edgewater Beach Hotel in Chicago.

The conference is sponsored by the American Institute of Electrical Engineers, the Institute of Radio Engineers, Illinois Institute of Technology, Northwestern University, and the University of Illinois, with participation by the University of Wisconsin and the Society of Motion Picture and Television Engineers.

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Mailed: March 22, 1951
FOR RELEASE: Immediate

CHICAGO -- Dr. Karl Menger, professor of mathematics at Illinois Institute of Technology, will deliver a series of lectures during April and May on metric geometry at the Sorbonne University, Paris.

Menger, recognized as one of the world's foremost mathematicians, is the author of numerous articles and textbooks. He conceived and designed an unusual mathematics display now being installed in the Museum of Science and Industry, Chicago.

The exhibit, a graphic exposition of geometry, shows not only the useful aspects of the science, but its beautiful, clever and amazing features. It will open in June.

Menger was born in 1902 in Vienna, Austria, and received his doctor's degree in mathematics at the University of Vienna in 1924. He was awarded the prize of the Vienna Academy of Science in 1928, and was named vice president of the International Congress of Mathematics in 1936.

He has taught mathematics at the University of Amsterdam (1925-1927), the University of Vienna (1927-1937), Notre Dame University (1937-1946), and at Illinois Tech since 1946.

Menger is married, the father of two children, and lves at 5506 North Wayne avenue, Chicago.

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Mailed: March 22, 1951
FOR RELEASE: Immediate

CHICAGO -- Engineering students and faculty of Illinois Institute of Technology will lay aside slide rules and books early in May for the Institute's annual Open House and Junior Week.

The Open House, May 3 and 4, is designed to show the many facets of scientific and engineering education to parents, alumni, friends, and high school students and teachers.

Each of the Institute's 29 degree-granting departments will exhibit student work, and products and applications of departmental instruction. The exhibits are informative, interesting, and amusing.

Three laboratory buildings of Armour Research Foundation of Illinois Institute of Technology will also be open for public inspection, and each of the Foundation's six research departments will present timely exhibits.

The Association of American Railroads' new central research laboratory will be open and equipment used in stress measurements, container tests, and refrigerator car tests will be demonstrated.

Guided tours showing the graduate educational and research programs of the Institute of Gas Technology will be conducted.

Junior Week, May 3, 4, and 5, is the annual student fun festival. Throughout the three days students will meet in a continuous program of intramural, interfraternity and intersorority contests ranging from athletic meets and games to a fashion show, pie eating contest, turtle race, interfraternity sing and pageant, and square dance.

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Mailed: March 23, 1951
FOR RELEASE: Memo

Sun-Times photo desk

Note to Photo Editor:

The Campus Players, dramatic group of Illinois Institute of Technology, will present "Death Takes a Holiday," by Alberto Casella, at 8 p.m. April 5, 6, and 7, in the Student Union auditorium.

The group composed of students and administrative personnel, is directed by Henry Knepler, instructor at Illinois Tech.

Rehearsals will be held at 7 p.m., Monday, Wednesday, Thursday, and Friday evenings (March 26-30) in the Student Union auditorium, 33rd and Federal sts.

Group shots of the cast in costume, or head shots of local participants could be made at that time if you wish to send a photographer.

Pat Petterson
Public Relations Department
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Mailed: March 26, 1951
FOR RELEASE: Immediate

CHICAGO -- Illinois Institute of Technology will offer a new educational program leading to a master of science degree in safety engineering, beginning next September, it was announced today by John J. Ahern, director of the department of fire protection and safety engineering.

The new graduate program is open to all persons with undergraduate degrees in engineering, Ahern said.

Those who have obtained bachelor's degrees in fire protection and safety engineering at Illinois Tech ordinarily will be required to spend two semesters for the master's degree. Other engineering graduates probably will have to spend three semesters.

For more than 35 years Illinois Tech (until 1940 Armour Institute of Technology) has had the only degree-granting fire protection engineering department in the nation. Safety engineering was added in 1945.

Ahern said the new program is in line with the Institute's program of serving the insurance industry by making available courses of study required by the industry in meeting its obligations to the public.

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Mailed: March 26, 1951

FOR RELEASE:

Note to Editors:

Authors' abstracts of more than 30 papers to be presented April 4, 5, and 6 at the Midwest Power Conference in the Sherman Hotel, Chicago, are inclosed.

Requests were few for full texts of papers, but we have duplicated those for which the largest number of requests were received. If any of those you asked for were requested in sufficient quantity, they, too, are inclosed.

Abstracts of more than half the papers to be presented and full texts of a few will be available at the press room during the conference.

-- Jim Armsey

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FOR RELEASE:

MIDWEST POWER CONFERENCE

ADVANCE FOR RELEASE AFTER 4:30 P.M., THURSDAY, APRIL 5, 1951

Scheduled delivery time: 3:30 p.m., Sherman Hotel, Chicago

"Vibration Problems in Large Electrical Machines."

By C. H. Janthey and P. R. Heller, Design Engineers, A. C. Generator Section, Westinghouse Electric Corporation, East Pittsburgh, Pa.

AN ABSTRACT

With the ever increasing requirements for larger units to help meet growing power demands, vibration problems have become greatly accentuated during recent years. In order to maintain the high degree of rotor quality required for a continuous reliable service without introducing serious production delays, modern balancing practice must deal effectively with all the various unbalance conditions.

On modern complex rotors, unbalance may be caused by geometrical errors, non-homogenous material, and distortion under operating conditions of speed and temperature. It is the purpose of balancing to off-set these imperfections by rotor mass adjustments and thus secure a smooth and reliable operating machine under all conditions.

A smooth operating machine is important to prevent noise and damage to vital parts such as bearings, seals and electrical insulation, as well as insuring proper functioning of all the machine parts. For this reason it is general practice

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to limit the vibration amplitudes well below those that would be expected to interfere with the reliability and performance of a machine.

After carefully designing a machine to control or isolate periodic mechanical and electrical forces which cause vibration, it has been the practice of the Westinghouse Electric Corporation to check each machine under simulated customer conditions to further insure a smooth running machine. In order to provide the precision balance required for high-speed turbine generator rotors, for example, balancing and seasoning rigs are maintained so that a rotor can be heated to 130°C while running at full operating speed for seasoning, as well as balancing under hot and cold conditions.

This assures adjustment of the various components and organic insulation. After being balanced in the rig within very low vibration tolerances, the rotor is assembled in the frame and a final balance check made.

The larger units receive a balance check in the frame under elevated temperature conditions to uncover any tendency of vibration change with increase in temperature. With the advent of longer and larger diameter rotors such as are associated with modern high capacity turbine-generators, occasional cases are experienced where a change in balance occurs with change in rotor temperature.

This phenomena has been called "Thermal Unbalance" as distinguished from "Mechanical Unbalance." Thermal Unbalance arises from a slight bowing of the shaft produced by a minor temperature gradient across the diameter of the rotor. The disturbing factor is usually very small and may arise from commercial variations in the rotor components.

Generally the Thermal Unbalance is minute, but on rare occasions it is troublesome and a Thermal Balance has to be performed. This is accomplished simply by obstructing the axial ventilation ducts so as to produce an artificial temperature gradient across the diameter of the rotor counteracting the disturbing gradient.

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For accurate and reliable determination of vibration magnitude, extensive use is made of the Wattmeter type balancing equipment and the Westinghouse direct recording vibrograph.

In addition to vibration frequencies corresponding to running speed, there are other non-synchronous vibration phenomena of both forced and self-excited types which must be controlled when encountered. Some of these vibrations are known to have been caused by machining errors on the bearings and journals, rubs between stationary and moving parts, misalignment of couplings, and flexibilities in frames and foundations.

While the present control of vibration in electrical machines is particularly effective, the rapid advances in sizes and speeds will impose increasing emphasis on improved methods of calculation, techniques, and instrumentation for the correction and control of vibrations.

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MIDWEST POWER CONFERENCE

ADVANCE FOR RELEASE AFTER 4:30 P.M., THURSDAY, APRIL 5, 1951

Scheduled delivery time: 3:30 p.m., Sherman Hotel, Chicago

"Pumped Storage"

By William J. Rheingans, Frank Jaski, and Herman Roth, Motor and Generator Section, Allis-Chalmers Manufacturing Co., Milwaukee.

AN ABSTRACT

Pumped storage consists of storing water by pumping into specially constructed or natural reservoirs for the purpose of using this water at a suitable time for the generation of power. The true pumped storage project takes water from a river, lake or reservoir and pumps it to a reservoir at greater height. At allotted times the water is allowed to flow back through a turbine which generates power.

In other words the project acts as a huge storage battery for storing power. Compared with electrical storage batteries or other types of storage accumulators the pumped storage of water has greater flexibility and is probably more economical.

Its advantages can be summarized as follows:

1. It utilizes surplus power available during night time and on Sundays or other off-peak periods and transforms it into high grade day time peak energy.
2. It assists in running thermal stations at continuous uniform load.
3. It adds to the reserve capacity of the system.

The idea of pump storage is by no means new since installations in

Switzerland date as far back as 1892.

Recently there has been considerable research work done on reversible turbine pump units for use in pumped storage projects where a single runner hydraulic unit operates in one direction as a pump and in another direction as a turbine. The hydraulic unit in this case is connected to a single electrical unit which serves as a motor for pump operation and a generator for the turbine operation. Model tests have shown that this type of unit would give about the same efficiency when operating in one direction as a pump as the efficiency obtained when operating in the opposite direction as a turbine. Maximum efficiencies approach closely the maximum efficiencies of standard pumps and turbines.

This reversible pump turbine makes the use of pumped storage in the United States attractive because it tends to reduce the overall installation costs. There are several reversible pump turbines of this type in operation and additional units are in the process of manufacturing at the present time.

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MIDWEST POWER CONFERENCE

ADVANCE FOR RELEASE AFTER 4:30 P.M., FRIDAY, APRIL 6, 1951

Scheduled delivery time: 3:30 p.m., Sherman Hotel, Chicago

"Feedwater Treatment in the Packing House (Internal vs. External)"

By Myron B. Golber, power plant engineer, general engineering division, Armour and Company, Chicago, Ill.

AN ABSTRACT

Advance in boiler design has resulted in more intensive use of heat absorbing surface. This in turn has fostered new developments in water treatment of which external softening plants have received most attention in technical publications.

Numerous steam generators, however, continue in service after extended use of internal treatment, and despite improved external softening now available, internal treatment continues to have advantages for many installations.

Decisions of this nature are based upon specific applications and data presented are derived from operation of the larger plants of Armour and Company. Installations considered range from HRT and 4-drum Stirling type boilers to modern 2-drum integral furnace types, and in size from 60 and 80 hp. boilers to 125,000 lb. per hour steam generators. Steam uses cover water, comfort and process heating, electric generation, air and refrigerant compressor operation, etc.

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Packinghouses and other food processing plants operate under special restrictions by reason of toxicity of some chemicals, or quality--degrading effect of others, but otherwise can use any water treatments now offered. Actual selection of treatment to be employed depends upon factors which may be divided under headings of chemical, mechanical, and economic.

As an example of the application of these factors, the plant at Peoria is cited. Here a new 3-drum water wall boiler and previously inadequate treatment of HRT boilers required a complete review of available softening methods. A modern internal treatment appeared most advantageous, and this selection is now substantiated from results obtained and shown by typical analyses of the raw water, and of the boiler water after the new treatment has been installed.

Company plants, however, include most of the treatment methods available, but it appears that external softening is used principally where plant electric generation requires steam of a quality satisfactory for turbogenerator operation. Where the prime movers are not critical with respect to steam purity, and much of the steam is used for process and heating, then the value of external softening is questioned.

In summary, the uses to which the steam is to be put is as much a consideration as is the protection of the steam generators. As with other technological advances, the new development does not automatically render previous designs obsolete. Careful analysis based upon engineering and economic considerations is required to determine the most advantageous treatment.

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MIDWEST POWER CONFERENCE

ADVANCE FOR RELEASE AFTER 3 P.M. WEDNESDAY, APRIL 4, 1951

Scheduled delivery time: 2 p.m., Sherman Hotel, Chicago

"Spreader Stokers for Large Boilers"

By J. S. Bennett, American Engineering Co., Philadelphia, Pa.

AN ABSTRACT

Boilers of large capacity really got their start at the Delray plant of the Detroit Edison Company in 1910 when double ended multiple retort stokers and double ended bent tube boilers were installed setting new records for capacity and efficiency.

As recently as the 1930's, spreader stokers were not taken seriously except for small boilers. Late in the 1930's, this picture changed due to improved application engineering and development of a method for discharging ash continuously, making combustion a continuous process rather than an intermittent or a batch process.

Today, no competent engineer would design a coal or lignite burning boiler with capacities below 200,000 pounds per hour without giving serious consideration to spreader stokers. Single spreader stoker fired boilers of over 30,000 lbs. of steam capacity per hour are already in service and single units up to half a million pounds per boiler, per hour, capacity are being discussed.

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Large spreader stokers of American design are in service or being installed in Great Britain, Holland, Turkey, Greece, Australia, and Indonesia.

Spreader stokers are replacing other types of stokers as well as pulverized coal in popularity because they burn the types of coal now available which have deteriorated in quality since the start of World War II not only in the U. S. but internationally. Spreader stoker steam generating capacity is almost unaffected by increases in the ash in the coal which requires increases in sizes of other types of stokers and larger grinding mills when pulverized coal is employed.

Spreader stokers are simple to operate, require relatively little capital expenditures, and are extremely responsive to load changes. They have been widely adopted by public utilities as well as large industrial users. Oil and gas can be burned in the spreader stoker furnace or any combination of two fuels can be burned simultaneously.

The author describes many actual installations of large spreader stokers in the United States. The method used for feeding Indonesian coal containing 21% water is explained.

Perhaps, one of the more interesting cases cited is that of a well known chemical manufacturer in the U. S. whose coal quality had fallen off 25% but who was able to obtain 20% more steam at higher efficiency by replacing older equipment with spreader stokers.

The author suggests certain steps that should be taken to obtain the best results with large spreader stoker fired boilers and proposes means for doing so most effectively by employing cross firing.

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MIDWEST POWER CONFERENCE

ADVANCE FOR RELEASE AFTER 10 A.M., FRIDAY, APRIL 6, 1951

Scheduled delivery time: 9 a.m., Sherman Hotel, Chicago

"Power Generation by Gas Turbines"

By A. G. Mellor, Central Station Engineering Divisions, General Electric Co., Schenectady, N. Y.

AN ABSTRACT

During the past few years a new type of prime mover, the combustion gas turbine, has been developed and the first installations for power generation have been made. Operating and application experience is still limited but, from the installations that have been made or are planned, a reasonable field of application of this new prime mover for power generation can be established.

The Company with which the author is associated has now developed three types of combustion gas turbines using differenet cycles and having different operating characteristics. The first of these is a 3500 kw simple cycle, single shaft machine with a thermal efficiency of about 15% which was originally designed for locotmotive use and later adapted for central station power generation.

A 5000 kw compound cycle, two shaft machine was later developed which, by the use of regenerators to recover heat from the gas turbine exhaust and by intercooling between stages of compression, has a thermal efficiency of about 28%. The most recent development is a 3500 kw two shaft machine, incorporating a regenerator, and having a thermal efficiency of about 22%.

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All of these gas turbines have been designed to burn either natural gas or Bunker "C" and diesel oil but require a shut down to change from gas to oil or vice versa.

Cooling water requirements for the 3500 kw units are very low, being only that required for generator and lubricating oil cooling. The 5000 kw unit requires about 800 GPM for intercooling but the total cooling water requirement is only about 1/5 to 1/6 that of the same size steam station and about 2/3 to 3/4 that of a diesel station.

A control has been developed which provides for semi-automatic starting and stopping of the unit, for speed and load control and for protection of the unit under abnormal operating conditions. This relieves the operator of much of the responsibility for operation of the unit and makes it possible for one operator to supervise one or more gas turbine units.

Consideration of the characteristics of gas turbine generating units and of the economic factors involved as compared with other types of power generating equipment leads to the following general conclusions as to the most probable applications for gas turbines for power generation.

1. As base load units on small and medium sized power systems where relatively small increments of generating capacity can profitably be added.
2. As peaking plants on small and medium sized power systems. The ease with which the gas turbine can be started and stopped makes it particularly suitable for this application.
3. In some cases where the relatively large amount of heat available in the exhaust gases from a simple cycle gas turbine can be used to advantage in the heat cycle of an adjacent steam-electric generating station.

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4. As railway mounted mobile emergency power plants for use in rapidly restoring service in an area devastated by a storm or other causes.

The gas turbine as a prime mover for power generation is very new and so it can be expected that within the next few years there will be many new developments. Among the most probable of these which will greatly increase the field of application of gas turbine generating units are the developemtn of larger units, the development of unattended, remotely operated stations and the development of dual fuel operation, or possibly a coal fired gas turbine unit.

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ADVANCE FOR RELEASE AFTER 3 P.M., FRIDAY, APRIL 6, 1951

Scheduled delivery time: 2 p.m., Sherman Hotel, Chicago

"Locomotive Gas Turbine Unit."

By William B. Tucker, turbo-power development department, Allis-Chalmers Manufacturing Co., Milwaukee, Wisc.

AN ABSTRACT:

Gas turbines have desirable features which are particularly applicable in installations where the prime mover of a specified power output is restricted to space, weight, use of water, and has an efficiency that will economically justify its use for a particular application when consuming the lowest cost available fuel (cents per million Btu).

This might well be a good general specification for a road locomotive. These features apply to locomotives for use in many passenger and freight train hauls throughout the country.

Studies will continue to be made of the suitability of locomotive gas turbines and their cycle components for use on various train runs and for varying fuel costs. In due time, the advantages and disadvantages, where they may well be established, will be determined by actual application.

Such meetings as the Midwest Power Conference go far toward the stimulation of ideas and guidance to this relatively recent gas turbine application.

Last year, the writer reported at the gas turbine session of the Midwest

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Power Conference that one of the principal interests of the Allis-Chalmers Manufacturing Company in the gas turbine field was a locomotive unit which had been built for use with coal fuel. Some of the problems encountered in manufacture and means employed for their solution were explained.

It is now intended to give briefly some of the problems which were encountered after operation of this unit was begun. The most important was the elimination of an objectional exhaust tonal noise which, if permitted to continue, would have limited the operation of this gas turbine locomotive to sparsely populated areas. The method by which the location and analysis of the noise was determined and the changes in one of the components which resulted in complete elimination of the noise will be explained.

No future trouble from this source is anticipated; however, should it be encountered, it will be easily recognized and corrected with little delay.

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ADVANCE FOR RELEASE AFTER 10 A.M., THURSDAY, APRIL 5, 1951

Scheduled delivery time: 9 a.m., Sherman Hotel, Chicago

"The Development of Organics for Water Treatment"

By J. A. Holmes, Vice President, National Aluminate Corp., Chicago, Ill.

AN ABSTRACT

Organic materials of various types have been used for a good many years for the prevention of scale and corrosion caused by water used by industry. Easily available organic material such as tannins, starches and other plant extracts have been used. These were satisfactory up until some time in the 1930's when higher boiler pressures and water temperatures made it necessary to develop better organic materials.

It was first necessary to try and determine the active constituents of the organics that produced results. It was discovered that some organics were better for certain uses such as corrosion, whereas others were better for preventing deposits inside the boiler.

The various uses of organics have been classified, and various organics have been selected according to their particular value for these uses, rather than trying to use one material for all purposes.

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From the late 30's on, much emphasis has been put on developing organics that are stable under high temperatures and that give better results. This necessitated altering and changing past available organics and developing new synthetic materials. Methods of how this research was done are described.

No effort is made to show examples of plant results, but only to describe the manner in which research has been done to date on organic materials.

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Scheduled delivery time: 2 p.m., Sherman Hotel, Chicago

"Progress Report on the Gas Turbine Locomotive"

Alan Howard, division engineer, gas turbine engineering division, General Electric Co., Schenectady, N.Y.

AN ABSTRACT

The Alco - G.E. 4500 hp gas turbine electric locomotive has been in operation on the Union Pacific Railroad since the summer of 1949.

During this time, it has pulled over 300,000,000 gross ton miles of train. It has traveled over 100,000 miles since it was built. The major part of the operation has been on Bunker C fuel.

The Union Pacific Railroad has ordered ten of these locomotives, which are now under construction. The paper will report these operations in some detail and will supplement a report given at the Midwest Power Conference a year ago.

The significant difficulties encountered will be described, and the solutions in hand or underway will be discussed. Over all the operation and prospects of this type of locomotive are considered good.

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Scheduled delivery time: 9 a.m., Sherman Hotel, Chicago

"The Delta Grounded Transformer"

By H. L. Hoeppner, senior electrical engineer, Pioneer Service & Engineering Co., Chicago, Ill.

AN ABSTRACT

The three phase wye-delta connected transformer is widely used in the electric power industry. It has a number of desirable characteristics which account for its widespread use but lacks one desirable feature in that the delta winding does not have a neutral terminal.

The factors favoring the grounded neutral system are well known and as electric transmission and distribution systems have been expanded there has been an ever increasing trend towards the adoption of the grounded neutral system for all voltage classes.

Grounding transformers, usually of the zigzag type, have been used in many instances for the establishment of neutrals on ungrounded or so called delta connected systems. Because of their cost their capacity has usually been held down to minimum requirements for relaying purposes so that the full benefits of a substantially neutral grounded system have not always been realized.

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The Delta Grounded Transformer was developed to meet the requirements of a utility company which wished to dispense with the use of separate grounding transformers.

The winding arrangement of the Delta Grounded Transformer is briefly described by stating that the winding opposite the wye connected winding consists of a zigzag winding and a delta winding, both on the same core, both connected in parallel and having a combined capacity equal to the wye connected winding. In addition to its function of voltage transformation, this transformer serves as a substantial grounding transformer on both its high voltage and its low voltage sides, with a 30 degree voltage displacement between the two voltages.

In addition to its substantial neutral grounding capacity it usually costs less than a wye-delta transformer with a separate grounding transformer. It offers further savings in that the additional foundation, steel work, connections and switchgear associated with a separate grounding transformer are not required.

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Scheduled delivery time: 9 a.m., Sherman Hotel, Chicago

"Use and Misuse of Organic Water Conditioning Materials"

By Robert W. Liddell and Louis C. Bishop, Hall Laboratories, Inc., Pittsburgh, Pa.

AN ABSTRACT

If you had been a boiler plant operator some years ago, your chief headache would probably have been that your boilers would persist in getting clogged up with hard lime scale. If you did nothing about this condition, your boiler might burst a tube and allow steam to escape or even explode.

Most of our troubles with hard scale in boilers have disappeared over the past quarter of a century due to better external water softening and to internal treatment with phosphate chemical. In some boilers, however, a new problem has come up. Instead of a hard scale, a much softer material, called sludge, may be found in the boiler tubes.

This usually doesn't cause any trouble, but sometimes this sludge may become so heavy that it will completely block off a tube and no water will circulate through it. This tube may then become so hot that it will burst, spewing steam throughout the boiler and forcing the operators to shut down the unit.

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There are a number of ways in which this sludge trouble may be corrected. The softening of the water may be further improved, mechanical changes may be made in the boiler to improve water circulation and give better mixing of the incoming feed water with the boiler water, or other chemicals may be added to the boiler water.

Among these other chemicals that may be added to the water are those which are called organic. This means that they may have been produced by some life process. Actually most of these chemicals are tannins or lignins, by-products of the lumbering and paper industries. Several materials have even been made by specially treating coal.

These organic materials do their work by keeping the sludge suspended in the water, thus preventing it from forming harmful deposits. In a large number of cases this method of treatment has worked very well. In some cases, however, more harm than good has resulted, either due to the fact that the organic material would cause the boiler water to foam or that it would break down in "hot spots" in the boiler and thus form a scale itself.

Just when to use these organic materials or when not to use them is like many other problems in engineering and requires considerable experience, a knowledge of the particular boiler, and a lot of horse sense.

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Scheduled delivery time: 2 p.m., Sherman Hotel, Chicago

"Survey of Current Practice in Treatment of Cooling Water"

By Durando Miller, technical department, The Permutit Co., 330 W. 42nd st., New York 18, N.Y.

AN ABSTRACT

In recent years increased attention has been focused upon treatment of industrial cooling water, due to shortages necessitating maximum re-use of water, and limited availability of alloys for cooling systems.

Tremendous quantities of water are pumped through heat exchangers and condensers to pick up heat in refinery and chemical processes and in steam plants. Before the water can be used again, it must be cooled. This is done by passing it through huge wooden cooling towers where the heat is removed by evaporation of a portion of the water. Evaporation of only one gallon of water will reduce temperature ten degrees in 100 gallons of water. Thus most of the circulating water is available for use again and again.

As evaporation takes place the minerals in the water remain behind, and increase in concentration. Unless proper treatment is provided, hardness in the water coats heat exchange surfaces with scale which acts as an insulator and lowers

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efficiency. Water softening by either the zeolite or lime process is widely practiced to eliminate difficulties due to scale.

Prevention of all scale may introduce a different problem--corrosion due to oxygen from the air absorbed by the water in passing through the cooling tower. Copper and stainless steel alloys will resist such corrosion, but critical shortages of these materials during World War II forced many plants to use steel heat exchangers. Means were therefore perfected to protect the steel surfaces against corrosive attack.

One method consists of partially softening the water, and using the remaining hardness to form a thin scale acting as a barrier between the steel and the oxygen. Other methods involve use of chemical corrosion inhibitors or removal of air from the water under a vacuum.

Dirt and slime-forming organisms are as unpopular in cooling water as they are in drinking water, and are removed by methods similar to those used in municipal treating plants.

Water treatment engineers also give attention to the wood parts of the cooling tower, since they are susceptible to attack by highly alkaline waters, and also may experience rotting caused by fungus.

Many variable factors influence selection of cooling water treatment, such as type of water available, heat exchange materials, cooling tower performance, water temperatures and flow rates. Careful study of actual operating experiences at many plants using various treatment methods serves as a check on the theoretical calculations of the water treatment engineer.

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ADVANCE FOR RELEASE AFTER 3 P.M., FRIDAY, APRIL 6, 1951

Scheduled delivery time: 2 p.m., Sherman Hotel, Chicago

"Recent Studies in Cooling Tower Wood Deterioration"

By D. R. Baker, Engineering Research Division, The Marley Company, Kansas City, Missouri

AN ABSTRACT

The economic significance of wood deterioration in cooling towers is best measured by installation costs. It is not uncommon for generating or processing units to require towers costing a quarter-million dollars or more, and as plant capacities increase so will the expenditures for cooling equipment.

To protect these industrial investments, a continuing research program is delving into the causative factors of wood deterioration and methods of combating them. Donald R. Baker, research engineer, has devoted much time in this effort. He divides the common causes of decay into two primary classes: chemical action and fungus decay.

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Mr. Baker draws an analogy between the action of alkaline solutions on cooling tower lumber and the common method of producing wood pulp for paper. In both instances removal of lignin (the natural binding element) frees the fibers that constitute the strength of wood. In cooling towers these alkalies and other injurious compounds may be inherent in natural water supply but are often introduced as treatment to prevent corrosion to metal.

Since the wood in cooling towers is often saturated with moisture half its own weight, it is a natural point of attack for airborne fungi. The types of fungi and their methods of destroying wood cells has been closely studied. Mr. Baker will deal in detail with the results of this research.

Means of forestalling these costly processes of wood decay, while not specific, are in constant consideration. Conclusions derived from various experiments will be outlined in Mr. Baker's speech.

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ADVANCE FOR RELEASE AFTER 10 A.M., FRIDAY, APRIL 6, 1951

Scheduled delivery time: 9 a.m., Sherman Hotel, Chicago

"The Use of Diesel Generating Units on the Northern States Power Company System"

By E. F. Carlson, Results Engineer, Northern States Power Co., Minneapolis, Minn.

AN ABSTRACT

The Northern States Power Company was faced with a problem common to most utilities in the fall of 1946, that of providing adequate generating capacity to carry the peak loads in 1947. It was obvious that steam capacity, planned to be in operation, would be delayed due to strikes and other factors beyond their control.

It was therefore decided to install approximately 27,000 kw of Diesel generating capacity. Twenty-seven units of approximately 1000 kw each were installed in groups of two, three, or four in ten strategically located plants on the interconnected system which extends across Minnesota and into Wisconsin and South Dakota.

Each of these plants is associated with an existing distribution substation with the generators connected to the distribution feeder bus. This connection provides a direct supply for load in the area in case of line outages, relief for overloaded transmission lines and transformer banks, solution of voltage problems, as well as additional system capacity.

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Although the final commitments were not made until February, 1947, fourteen of the units were in service for the 1947 peak load period and contributed substantially to the ability to render uncurtailed service to customers.

The generating units, auxiliaries and switchgear complete with the required synchronizing, metering and protection, are housed in a steel-frame composition-covered building of simple construction. One section of the building, 18 feet by 43 feet, is common to each installation for switchgear and general operation, and an additional section, 14 feet by 43 feet, is added for each engine-generator unit.

Of the twenty-seven units previously mentioned fifteen were General Motors and twelve were American Locomotive. All the other major equipment, such as switchgear, jacket water coolers, fuel oil system, heating system, etc., is duplicated in all of the installations. The use of duplicate equipment greatly simplified the design, construction and operation of these plants.

The addition of Diesel Plants in the manner outlined above was a new venture with this company but the first four years of operation have shown that they have performed all of the functions for which they were installed in a very satisfactory manner.

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ADVANCE FOR RELEASE AFTER 3 P.M., THURSDAY, APRIL 5, 1951

Scheduled delivery time: 2 p.m., Sherman Hotel, Chicago

"Minimizing of Fireside Deposits in Stoker-Fired Boilers through Humidification of Combustion Air."

By Paul Murphy, Jr., Boiler Room Engineer, and John D. Piper, Chemical Supervisor, Research Laboratory, The Detroit Edison Co., Detroit.

AN ABSTRACT

After years of combating fireside deposits, a simple method has been found to minimize the rate at which they form. This method consists of maintaining at least 16 pounds of water vapor per 1000 pounds of air that is fed through the fuel bed.

We recognize the fact that humidification is not new, and that at least 40 patents have been issued since 1876 on introducing moisture either below or above the fuel bed for various purposes. However, as far as the authors of this paper are aware, this is the first instance where controlled humidification has been used for the specific purpose of reducing high temperature deposits on the heating surfaces of large stoker-fired steam generators.

Low absolute humidity periods result in rapid fouling of the heating surfaces, increased flue-gas temperatures, increased fan-power requirements, increased clinkering of the fuel bed, and increased maintenance costs.

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For many years, it had been known that superheater deposits formed more rapidly in winter than in summer; and in 1949, the possibility of correlation was carefully analyzed.

The correlation was striking, and showed that the high humidity periods coincided with periods of low stack-gas temperatures and high efficiency.

There are days when the moisture in the combustion air, for a 325,000 lb/hr steaming rate, was 418 lb/hr and other days when the moisture was 7470 lb/hr. If these amounts react quantitatively with the carbon as they pass through the fuel bed, the 500 lb will react with 1.35% and the 7470 lb will react with 20.5%

This difference gives promise to a possible water-gas reaction that could reduce the volatilization of various compounds from the fuel bed that condense on the heating surfaces of the boiler.

Steam was used to add moisture to the combustion air; control was manual, and the amount of moisture added was adjusted for each 25,000 lb/hr change in steaming rate, each 5% change in relative humidity and each 5-degree change in ambient temperature.

The first humidified boiler operated for a record of 133 days, and the stack gas temperature increased only 10F. The steaming capability of this boiler after 133 days of operation was still 400,000 lb/hr. The boiler was then shut down for two days for minor stoker repairs. No cleaning was done, and the boiler was put back into service and operated without benefit of humidification. After 29 days of operation, the steaming capability was reduced to 300,000 lb/hr and the stack gas temperature had increased 120F.

In order to determine the rate of deposition, the composition of the materials that adhere to the superheater, economizer, and air-preheater, a probe sampler was used.

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Probe samples were taken while operating with varied quantities of humidification and under varied operating conditions. The results taken from these samples gave additional proof that humidification is beneficial.

The quantity of the deposit was lessened with the increase in humidity of the combustion air, and the color of the deposit ranged from nearly white for low humidity to nearly black with increased humidification.

The selective volitilization of silicon compounds and general volitilization of all other constituents of ash is reduced with increased humidification.

There is still a great deal of experimentation being done in this humidification process. It is believed that by keeping the heating surfaces cleaner than normal, humidification will improve average boiler efficiency sufficiently to compensate thermally for the water added to the combustion air, leaving a pronounced gain in boiler availability and lower maintenance.

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ADVANCE FOR RELEASE AFTER 11:30 A.M., THURSDAY, APRIL 5, 1951

Scheduled delivery time: 10:30 a.m., Sherman Hotel, Chicago

"Excitation Control for Synchronous Machines"

By M. Temoshok, Power Generation Division, Central Station Engineering Divisions, General Electric Co., Schenectady, N. Y.

AN ABSTRACT

This general subject of excitation control can be divided into two approaches -- the design of the components and the application of the components. The latter is the theme of this article. A voltage regulator is one component of a closed-cycle control system and its analysis cannot be divorced from the remainder of the excitation system.

The main function of voltage regulators is to respond to changes in the controlled voltage and to instigate the necessary changes in the excitation system to restore the controlled voltage to the desired value. Voltage changes can occur because of normal system active or reactive load variations, system faults, or variations in generator field resistance because of temperature changes.

The regulator plays a small part in transient system stability. Although regulator action can be instantaneous, the time constants of the exciter and main generator fields largely determine the build-up of the main generator field flux. The influence of the regulator, therefore, may just begin to be felt after

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about 1/2 second following a disturbance. Relay and breaker operating times exert the greatest influence in transient system stability.

For steady state system stability, a properly designed regulator can provide extra stability margin by permitting the generator to operate in the dynamic stability region if necessary. Operation in this region is beyond the load possible by hand control of excitation.

The criteria of regulator electrical performance are stability, inherent regulation, accuracy, and degree of dead band. The latter three characteristics combine to determine the ability of the regulator to hold a desired voltage. As for mechanical performance, the regulator and the corresponding excitation system should be just as or more reliable than any of the major generation components of boiler, turbine, and generator. These criteria are best met, at present, with the static magnetic regulator with rotating amplifier, such as the amplidyne, operating in the field of a self-excited exciter. Excelling characteristics of this regulator are: continuous action; no dead band; ease of applying secondary functions such as lower and upper excitation limit controls, line drop compensator, equalizing reactor; a completely static regulator with the rotating amplifier as its only moving part.

The electronic exciter is not a new development in the power field. In 1933-1934, excitation for a synchronous condenser was provided by an electronic exciter with an electronic regulator. The application of the electronic exciter to synchronous generators fundamentally does not present any new problems. Ignitron tubes, six generally, provide a rectified voltage to the main machine field. Excitation control is provided by controlling the firing time of the tubes. Reliability of the electronic exciter is increased by providing a static magnetic regulator, similar to that used with the buck-boost amplidyne regulator of system D, in place of the electronic regulator. The preferred a-c power source to the electronic exciter is an auxiliary bus. The power source would then be the same as provided for a motor-driven exciter set or any other essential station auxiliary.

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ADVANCE FOR RELEASE AFTER 4:30 P.M., WEDNESDAY, APRIL 4, 1951

Scheduled delivery time: 3:30 p.m., Sherman Hotel, Chicago

"Motor Speed Control on A-c Power Systems"

By E. V. Seeger, Vice President in charge of Development, Cutler-Hammer, Inc., Milwaukee, Wisconsin.

AN ABSTRACT

In the early days of the electrical business, most of the generation and distribution of power was direct current. The speed of direct-current motors was controlled by varying the armature voltage and by varying the field strength.

As power plants became larger and transmission distances increased, alternating current became the principal source of power. In the early days the changeover was accomplished simply by putting in some means of rectification and continuing the use of direct-current motors.

As time goes on, more and more industries are using continuous processes, and more methods of manufacture have been adopted which require a close control of all conditions. These tendencies have accentuated the need for means of obtaining speed control of machines on alternating-current supply systems. There are many types of motors, mechanical transmissions, magnetic transmissions, and electrical control systems. The number of possible combinations for

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obtaining speed control is therefore quite extensive.

Among the alternating-current motors, those most used for obtaining speed control are commutator motors, multi-speed induction motors, and wound rotor motors.

The first cost and maintenance on an ordinary squirrel-cage motor are, of course, both very low, and a great deal of work has been done in an attempt to utilize this simple type of motor on as many installations as possible. This factor, probably more than any other, has led to the development of a number of mechanical transmissions such as the Graham, Reeves, and P.I.V. Several oil type transmissions have also been developed, and more recently the magnetic coupling and the powdered metal clutch, both of which allow speed control from a rheostat. These magnetic devices have also been used in some instances to control speed by placing a variable drag on the drive.

The wound rotor induction motor is probably used more than any other type for obtaining speed control. In addition to control by means of resistance in its secondary circuit, it has been controlled by utilizing unbalanced voltage applied to the primary. Due to the high currents encountered, however, this system is suitable only for intermittent duty drives or where operation at slow speed is sustained for only a short time.

The wound rotor motor can also be controlled electronically. Tubes placed in one phase of the motor can be used to control the speed.

Alternating-current motors can also be controlled by varying their frequency. Here again the wound rotor motor is probably the most desirable.

The purpose of this discussion is to show that there are many methods and systems available and that all of the engineering and economic reasons must be considered in making a choice for any application.

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MIDWEST POWER CONFERENCE

ADVANCE FOR RELEASE AFTER 3 P.M., WEDNESDAY, APRIL 4, 1951

Scheduled delivery time: 2 p.m., Sherman Hotel, Chicago

"The Trend Toward Reheat"

By H. G. Ebdon, Vice President, Combustion Engine-Superheater, Inc., New York

AN ABSTRACT

In a paper delivered before the 13th Annual Midwest Power Conference entitled "The Trend Toward Reheat," Mr. H. G. Ebdon, vice president of Combustion Engineering - Superheater, Inc., New York, N.Y., told of one of the most important ways in which engineers of public utility companies are improving the efficiency of steam power plants.

In the reheat cycle the steam actually passes through sections of the boiler and turbine twice, giving up a greater amount of its energy for power generation than in the conventional power plant cycle. Plants employing the reheat cycle have a slightly greater initial cost, but this is more than compensated for by the greater efficiency and the resulting savings in fuel.

Mr. Ebdon pointed out that the reheat cycle is not new in the power plant field, for some installations were made in the early 1920's. Although these early plants are still operating, there was a period of years in which metallurgical advances permitting higher steam temperatures and pressures took much of the interest

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away from the reheat cycle. That trend has been reversed since the end of World War II because of rising fuel costs and the development of dependable single boiler-turbine-generator units.

The Port Washington Station of the Wisconsin Electric Power Company was mentioned as a historic reheat installation which held the record of being the world's most efficient power station for about twelve years and proved the reliability of the large single boiler-turbine-generator unit. The first postwar reheat unit was ordered for this station in 1945.

1950 was the year in which reheat made its greatest impact upon the utility industry. Between January 1, 1950 and March 1, 1951 eighty-two reheat units aggregating 9,690,000 kw were placed on order, and one manufacturer reported that nearly 70 per cent of the utility business booked during that period was for reheat installations.

Mr. Ebdon noted that fourteen of the fifteen largest private utility companies, excluding those with 100 per cent water power resources, had reheat units either on order or in service at the beginning of 1951. Reheat units are also well distributed geographically in seven of the eight electric power supply regions established by the Federal Power Commission.

In concluding Mr. Ebdon paid tribute to the utility managements who had the courage to adopt reheat in the early postwar years and who started the trend which is now so evident. They proved that the savings offered by the reheat cycle could be realized in practical power plant operation.

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MIDWEST POWER CONFERENCE

ADVANCE FOR RELEASE AFTER 3 P.M., WEDNESDAY, APRIL 4, 1951

Scheduled delivery time: 2 p.m., Sherman Hotel, Chicago

"High Voltage Transmission"

By S. B. Crary, Analytical Division, Application and Service Engineering Divisions, General Electric Co., Schenectady, N. Y.

AN ABSTRACT

1. Progress in the of a-c transmission has been quite rapid in recent years and is continuing at a good rate.

2. D-c transmission appears to be no longer competitive with a-c on overhead lines.

3. It is expected there will be a continuing trend to

   a) increased kilowatt loadings per circuit

   b) reduced line insul

   c) reduced losses by the use of larger conductors, more efficient transformers and kvar control

4. Additional developments in the field of high voltage transmission can be expected in the direction of

   a) larger transformer and generating units

   b) higher interrupting capacity circuit breakers

   c) improved relaying

   d) increased interconnection of system

   e) development of operating procedures to reduce severity of

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transmission and generator outages

5. Voltages higher than the 300 to 400 kv range do not appear justified economically even for the most extreme range of local conditions, with a voltage in the lower part of this range appearing as best suited for conditions prevailing in this country.

CONCLUSION

High voltage transmission is showing continued healthy growth. Although there appears to be no further economic advantage in increasing the voltage levels above the 300 to 400 kv range, the use of these higher voltages has opened up new opportunities to obtain more efficient systems.

The immediate future appears to be a period in which much effort will be given to improving the efficiency and capabilities of these new higher voltage systems. The opportunities now apparent insure that as much progress will be realized during the next decade as was attained during the last, possibly more.

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ADVANCE FOR RELEASE AFTER 3 P.M., THURSDAY, APRIL 5, 1951

Scheduled delivery time: 2 p.m., Sherman Hotel, Chicago

"Problems in Power Plant Design for Reclamation Multiple Purpose Projects"

By I. A. Winter, head, Hydraulic Machinery Division, Bureau of Reclamation, Denver

AN ABSTRACT

This paper discusses the problems of design associated with the development of hydroelectric power features of the Bureau of Reclamation's multiple purpose projects. Production of hydroelectric power is an important consideration in establishing the feasibility and economy of many of the large river basin undertakings of the Bureau.

The paper covers five aspects of design inherent in the development of power on Reclamation projects--hydrographic studies which incorporate the comprehensive plans for water storage facilities, run-off, and distribution; power studies required in planning the coordination of power facilities with irrigation and water storage; design of appurtenant hydraulic features of power plants; selection of hydraulic machinery as prime movers for Bureau power plants; and development of pumping installations as an economical and feasible outgrowth of hydroelectric power.

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The paper includes a brief summary of economical design and selection of turbines on various size power plants. It points out the advantages and disadvantages of hydraulic machinery now in use in Reclamation power plants and cites the need for a new type of turbine capable of withstanding the pressures of water falling 50 to 125 feet.

In his reference to pumping installations Mr. Winter discusses the trend in the development of pumping plants towards the maximum feasible size units. He cites as an example the largest power and pumping plants in the world at the Grand Coulee development in the State of Washington. On the other hand, he explains that although primary pumping plants may reach a total installed capacity of 20,000 cubic feet per second, a greater requirement in engineering design of pumping plants is the distribution of smaller flows throughout irrigation developments.

The paper concludes with the statement that it is feasible to construct multiple purpose Reclamation projects producing large quantities of hydroelectric power along sound economical lines without impairing the primary functions of these projects. The energy of falling water which would normally have to be dissipated can be converted into useful work through the operation of extensive pumping systems whereby water is delivered to favorable lands. In addition to this accomplishment, Mr. Winter concludes, surplus electric energy available may be advantageously transmitted to areas in which the general over-all economy of the project is developed.

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ADVANCE FOR RELEASE AFTER 4:30 P.M. FRIDAY, APRIL 6, 1951

Scheduled delivery time: 3:30 p.m., Sherman Hotel, Chicago

"Power Plant Communication."

By William Jarzembski, Panellit, Inc., Chicago, Ill.

AN ABSTRACT

Control of modern power plants is being accomplished from a central control point with a marked reduction in operating personnel. This reduction in personnel requires a better and more closely knit communications system.

There are many systems in use today, but each is made up of one or more of several basic types, such as audible alarms, telephone, sound systems, etc.

The oldest system is, today, still the most important. This is the annunciator type of alarm system which is considered an essential in all but the smallest power plants.

Telephone systems, either privately owned or leased from a local telephone company, are also an essential part of a power plant communications system. Many different types are available; the choice of the proper type is very important in establishing the whole communications system.

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Sound systems including microphones, amplifiers and loudspeakers are becoming increasingly important in the control of power plants. The sound system may become an important adjunct to the telephone system, but extreme care is necessary in the selection of components for satisfactory service life.

The basic principles involved in selecting sound system components for use in extremely noisy locations differ from those used in designing sound systems for use in ball parks and theaters.

Consider a source of noise and two loudspeakers, one located near the source of noise and one located at a distance. For the distant loudspeaker to be heard in the area near the noise, it must have an extremely loud volume, which may be uncomfortably loud in the vicinity of the speaker. The speaker located near the noise may be equally loud, but the speaker output will be diminished by distance in the quiet area, so as to be unintelligible.

The best communications system for a particular plant will consist of a combination of one or more of the above methods of communications. At least one major utility maintains as a permanent staff member, a communications engineer, responsible for their communication system, keeping pace with the development of the power facilities of the company.

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ADVANCE FOR RELEASE AFTER 4:30 P.M., WEDNESDAY, APRIL 4, 1951

"Grounding of Industrial Systems"

By W. C. Bloomquist, General Electric Co., Schenectady, N.Y.

AN ABSTRACT

This paper covers two parts. The first deals with power-system grounding, sometimes called "neutral" grounding and tells where and how to ground the power system for an industrial plant. The second part covers the equipment grounding system for safety to personnel and tells the elements that should be considered to accomplish that objective.

The author's recommendations are strongly in favor of a grounded power system mainly because of the elimination of transient over-voltages which occur on ungrounded systems due to intermittent arcing grounds and the features of automatic and selective indication of grounds. These are substantiated by case histories included in the paper.

Although there are many grounding systems to choose from, the paper includes only the more practical ones meeting industrial plant requirements. There is a handy reference table for selecting the proper grounding method for all the voltage classes up to 13.8 kv.

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There is a short and worthwhile explanation for the differences in grounding practices between utilities and industrials.

The author recommends that load-center transformers be connected delta on the primary and wye on the secondary to conveniently and inexpensively obtain a neutral point for grounding. Furthermore, with a 480Y/277-volt system a plant can take advantage of the saving for the lighting installation by using 265-volt fluorescent lights (connected line-to-neutral). This saving is estimated at $20 per kva of lighting load; there is also a saving in copper and steel, so important now with the increased defense effort.

The second part of the paper stresses the importance of safety to personnel and how a properly laid out equipment grounding bus network can prevent hazardous and spurious voltages on electrical equipment. Here the author stresses the fact that it is more important to have a low resistance for the equipment grounding bus system than a low resistance for the station ground.

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ADVANCE FOR RELEASE AFTER 3 P.M., THURSDAY, APRIL 5, 1951

Scheduled delivery time: 2 p.m., Sherman Hotel, Chicago

"Soot and Slag Blowers in Modern Power Plants"

By D. E. Hibner, Jr., Vice President, Vulcan Soot Blower Division, Continental Foundry and Machine Co., Dubois, Pa.

AN ABSTRACT

In recent years, especially since the end of World War II, there has been a consistent and rapid change in the type of soot blowers for power boilers.

In years past a soot blower element, which was the part inside the boiler, consisted essentially of a piece of tube, either ordinary carbon steel or heat resisting alloy, which directed a steam jet in between the tubes; that is, in the gas space or fireside of water tube boilers.

Naturally, there were limitations as to the temperature into which these element tubes could be installed, and even when the temperatures were down below 1800°F. there was still rapid deterioration of the tubes or soot blower element.

However, fuel burning knowledge has changed so that we have greater efficiency in the buring of the fuel, and higher temperatures of the gases in the furnace of the boiler. This, in many cases, caused molten slag to solidify on the boiler and the superheater tubes.

The element tube, since it has nozzles for virtually every tube space, naturally was limited to its cleaning capacity because there may be as high as 40 nozzles in one tube so that each individual nozzle had to be small in order to

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limit the size of the tube and the steam piping supplying the steam to this tube. Thus the cleaning, in case of slag and even in the case of any deposit adhering to the boiler surface, was very much limited.

The first thing that had to be cured was the high cost and high maintenance on alloy tubes, which would burn up. Therefore, naturally the idea first evolved was to remove the tube from the furnace when it was not in use. The next step was to equip this tube with only two nozzles instead of a multiple number of nozzles. Therefore, all the energy divided among forty nozzles was concentrated in two nozzles. Thus the range and the cleaning effectiveness was greatly increased

All there remained to do, therefore, was to impart a rotary motion and a traversing motion to these two jets on the end of the element tube which now is called a lance. So, by means of proper mechanical equipment the nozzles are rotated and traversed across the surface to be cleaned. Thus we accomplish low maintenance because the tube does not burn up, and proper cleaning because the energy is supplied where it is required.

The cleaning and low maintenance are so effective that the retractable soot blower has replaced the old conventional rotary unit even in the cooler passes because all the mechanism is on the outside of the boiler and because it has such excellent cleaning ability.

In the same period there has been a great change in the blowing medium. Prior to 1945 steam was used in the greater percentage of the cases although air had been used, but since then a larger and larger percentage of medium, and large power plants are using compressed air as the blowing medium.

Compressed air in most cases is more expensive, but only slightly so, and in many cases costs are in favor of air blowing because maintenance on the soot blower equipment, and even on the boiler, is less and it will cut down the amount of water which must be prepared before it can be put in the boiler to replace the steam used for soot blowers.

Air pressures used vary anywhere from 100 to 500 psig.

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ADVANCE FOR RELEASE AFTER 1 P.M., THURSDAY, APRIL 5, 1951

Scheduled delivery time: 12:15 p.m., Sherman Hotel, Chicago

"What Can the Engineer Contribute to Better Living."

By Jack T. Wilson, Chief Physicist, Allis-Chalmers Manufacturing Co., Milwaukee.

AN ABSTRACT

The history of the early civilizations of the world has been written for us by archaeologists, and among the artifacts which remain to tell the story of the early civilizations, we find that the sculptor and the engineer have done most to make a permanent record. The engineers developed war machines for Charlemagne. They also constructed sturdy buildings to house the colleges and schools which he established. Also, the engineers have given us the Roman aqueducts and the great highway which we know of today, and still use as a thoroughfare for vehicles.

We find evidence to show that the Egyptian civilization and the Mayan civilization employed agricultural engineers, who in some instances terraced the land to conserve the properties of fertility and moisture in the soil. Today we can look at the engineer's plan for a great city and learn of the complexities of engineering science which are required in order to make the city function.

For a time the engineer became more and more of a specialist, and his problems required more and more of a complex analysis, and the degree of speciali-ation became so great that no one man could understand the problems of another.

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Looking at the middle of the twentieth century we find a new era has been opened in which the coordination of many specialists to solve one problem has been achieved. In order to tell this story briefly, we will choose one subject and analyze the historical development of a new technique in clinical medicine which is the result of many specialists independently pursuing their studies and then eventually combining their results when the clinical need for such a development was made known by physicians.

The story of the development of the artificial kidney tells us that this instrument was predicted as early as 1913, but not until the chemical manufacturer and the chemical engineer, the meat packer, the food processing engineer and the physician had combined their talents, did we find the prophecy fulfilled.

The history of the artificial kidney tells us a story of how human life can be saved and benefited by the collaboration of engineering science and medicine. The important role which our knowledge of atomic architecture has played is also related in this story, and as the history of atomic energy unfolds, we find that the engineer has been the first to make use of atomic energy techniques in making human life more dignified and valuable.

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ADVANCE FOR RELEASE AFTER 11:30 A.M., THURSDAY, APRIL 5, 1951

Scheduled delivery time: 10:30 a.m., Sherman Hotel, Chicago

"Electronic Excitation"

By J. E. Barkle and D. F. Schankle, Central Station Engineers, Westinghouse Electric Corp., East Pittsburgh, Pa.

AN ABSTRACT

Approximately thirty years ago, electric power systems in this country had grown to a point where the factors limiting long-distance power transmission became important. The principal limitation was the problem of stability, and research was undertaken to find ways of improving system stability. Results showed that excitation equipment for generators, if properly designed, could appreciably improve system performance in this respect. It was shown that the amount of power transmitted through a system could be increased by use of quick-response excitation systems.

The generator voltage regulators and excitation systems resulting from those studies remained the industry standard for many years with relatively minor improvements and changes. Nevertheless, designers have continued in their efforts to develop excitation systems yielding the ideals of minimum maintenance and utmost reliability while providing greater sensitivity and high speed of response. Several

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new systems have been introduced in the last few years using rotating amplifiers, static circuits and electronic components to achieve some of these aims.

The electronic excitation system generally consists of the following basic parts:

1. A reliable source of a.c. power, preferably unaffected by system disturbances.
2. A power rectifier to convert the a-c power to d-c power for exciting the field of the synchronous machine.
3. A generator voltage regulator to provide automatic control of the synchronous machine output voltage combined with a means of manual control of voltage.

One of the most reliable sources of a-c power that has been used is a three phase a-c generator direct-connected to the turbine-generator shaft. Its output is transformed from three phase to six phase voltages by a rectifier transformer. Such a source of a-c power is not affected by system disturbances.

The power rectifier is a conventional six phase rectifier using ignitron tubes. These rectifiers have proven their reliability in many industrial applications, and have sufficient capacity that normal excitation requirements can be supplied with four of the six tubes in service. This permits replacement of defective tubes and normal maintenance without loss of excitation.

The electronic voltage regulator used with the a-c power source and six phase rectifier provides excellent sensitivity to voltage changes at the terminals of the generator, high speed of response, and initiates immediate corrective action when the generator terminal voltage varies from the desired regulated value.

These three basic parts of an electronic excitation system, the a-c power source, the power rectifier, and the electronic voltage regulator, each have their own protective and control features that permit maintenance and replacement of

component parts without shutting down the main generator unit. These features, plus the operating characteristics of good sensitivity and high rate of response, make the electronic excitation system comparable to the more conventional excitation system used today. Its cost is somewhat greater than that of the more conventional excitation system. However, the fact that the electronic excitation system needs no spare capacity should be kept in mind when comparing overall excitation facilities The overall cost must be evaluated for each application, and in any event, the cost of the excitation system is a small percentage of the cost of the main turbine-generator unit.

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ADVANCE FOR RELEASE AFTER 4:30 P.M., THURSDAY, APRIL 5, 1951

Scheduled delivery time: 3:30 p.m., Sherman Hotel, Chicago

"Electric House Heating - Load Characteristics and Economics."

By W. F. Friend, Mechanical Engineering, Ebasco Service Inc., New York

AN ABSTRACT

Compared with other uses of electricity in residences, house heating offers a huge potential market. It also presents economic and technical problems in providing service greater than have accompanied any of the residential uses heretofore promoted by utility companies and equipment manufacturers.

House heating by resistance methods requires annual energy consumption roughly two to three times that for all other electric service in typical residences in the Midwest, and it must meet competition from fuels selling at relatively low cost.

The electric heat pump is one solution, where summer air conditioning is desirable. The resistance-type installation that provides decentralized heating equipped with thermostat in each room and with supplementary manual control or sequence programming device, is another.

Improvements in house construction to minimize heat losses and the

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provision of thermal storage, both requiring substantial investment, are alernatives for reducing electric heating capacity. So-called panel heating and reflective radiant conditioning, which permit lowered indoor air temperatures, constitute still further variants.

Relation between electric peak demand and energy consumption for house heating, as well as interrelation of heating load to the customers' other uses of electricity and to the utility-system aggregate load, are factors that determine whether the cost of electric house heating will or will not be acceptable to the customer and compensatory to the utility company,

Investment by the home owner in his heating installation and by the utility company in generating plant and system facilities to supply the service, are additional elements affecting costs. Moreover, the rate schedule applicable to such load must in the long run reflect both cost of providing service and its value to the user.

It is therefore not surprising that appraisal of the potential benefits or disadvantages to utility companies from growth of house-heating load has remained controversial. Much of the difference of opinion is being resolved through accumulation and analysis of data from test metering installations.

It is the purpose of this paper to duscuss in general the technical and economic considerations, and to indicate by what methods house-heating loads can be given better characteristics. The discussion may assist also in judging the validity of pronouncements that house heating is a load strongly to be encouraged, or on the contrary, to be avoided as an economic peril alike to home owners and to the electric utilities.

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ADVANCE FOR RELEASE AFTER 11:30 A.M., WEDNESDAY, APRIL 4, 1951

Scheduled delivery time: 11 a.m., Sherman Hotel, Chicago

"The Engineer's Responsibility in the Fight against the Disintegration of the Foundations of Freedom."

By W. C. Mullendore, President, Southern California Edison Co., Los Angeles, California.

AN ABSTRACT

Among those who, in this critical period, have failed to live up to the required level of responsibility of citizenship in our one-time republic, we must include most of the engineers, along with most of the members of other business and professional groups. We have failed affirmatively in perfecting our own understanding of freedom, and we have failed passively by our attitude of unwarranted confidence that all is well in this period of peril and disintegration. We cannot escape responsibility for our apparent unconcern and lack of awareness which have misled others who are entitled to rely upon our judgment, and who have been influenced by our misleading and mistaken attitude.

The engineer properly accepts a considerable share in the responsibility for guarding against and fighting the physical forces of disintegration which threaten to weaken or destroy the structures, the machinery and other products of constructive effort to which he has contributed. But in a free society, the engineer must also do his part as a responsible citizen in combating the disintegrating forces which attack and undermine the psychic foundations upon which

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all material progress and achievement rest.

The forces of human nature, like other natural forces, can and do become destructive if they are not subjected to the restraining influences of the institutions of a free society. These institutions include the free market and competition in the economic sphere, freedom of worship and education, the protection of the home, the family, and a Government of strictly limited powers under a Constitution which safeguards individual liberty, and restrains and limits the predatory instincts of the human beings, as well as the power and influence of that termite of a free republic, the demagogue.

Our form of society cannot function if we delegate to a few so-called political experts the control over and direction of human forces, which, like the natural forces of electrical and atomic energy, may become very destructive. The control of these potentially destructive forces, -- such as desire for power, envy, selfish disregard of the rights of others, -- is first of all the job of the free individual himself, and then it is the responsibility of every enlightened citizen to support those ideas and institutions which encourage constructive and discourage destructive effort.

The indifference and negligence of the leadership in all walks of life must be charged with responsibility for the growth of that collectivism and concentration of power in the state which are undermining and destroying the self-reliance, self-discipline and independence, and hence the freedom of all Americans. The collectivism of "social security," of public ownership, of socialization of individual earnings, of the militarization of the economy, and the internationalization of our country as a whole, -- these are some of the disintegrating forces which should be fought.

Already in fighting wars against enemies whom we believed menaced our civilization, we have sacrificed hundreds of thousands of lives and incurred obligations against our future earnings equal to the savings which we have

accumulated throughout our history as an independent nation. Nor is that by any means all. Before, during, and since our involvement in World War II, the same destructive foreign ideologies of collectivism and totalitarianism which enslaved Russia, destroyed Europe, and have now engulfed Great Britain, have been flowing in upon us and making distinct headway in destroying and supplanting those distinctive American instutions of freedom which were and are the source and secret of our strength. Over the past 18 years in particular, we have been increasingly abandoning the new, modern, liberal American system of limited Federal, republican government, and substituting therefor the reactionary old-world plan of a centralized paternalistic government with its creeping paralysis of individual initiative and self-reliance which are the indispensable components of freedom.

I am not proposing that we should all take a leave of absence from our jobs and take to the hustings for the purpose of sounding the alarm about the imminent danger to our basic institutions. Of course, we have important work to do, and we must keep at it. I am saying, however, that regardless of our devotion to the means by which we earn our livelihood, we also have a paramount responsibility to ourselves and our children to preserve the foundations and the framework of this house within which we live. Along with our responsibility for our daily work, we have an even higher or primary responsibility of doing what we reasonably can to ward off and defeat the forces which are now forging chains of governmental power and authority which will restrict and regiment the lives of our children to the point of enslavement.

I am concerned lest it be said of us by our children that when their heritage was being destroyed, their fathers, notwithstanding their education and opportunity to know the facts, were so busy with their electrons and formulas, with their great engineering projects and the perfection of television and other gadgets, that they had no time to help in the preservation of the fundamental liberties without which the whole of that heritage will be lost.

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ADVANCE FOR RELEASE AFTER 10 A.M., THURSDAY, APRIL 5, 1951

Scheduled delivery time: 9 a.m., Sherman Hotel, Chicago

"A Method of Estimating the Ultimate Analysis of Bituminous Coals from the Proximate Analysis."

By Edward W. Jerger and John R. May, Iowa State College, Ames, Ia.

AN ABSTRACT

This paper deals with the conversion of a proximate analysis of coal to an ultimate analysis. The proximate analysis breaks down the coal into four parts, the non-combustible water and ash, and the combustible volatile matter, and the so-called fixed carbon. These last two are actually the portion of the coal that burns as gas and solid respectively.

The ultimate, on the other hand, actually gives the chemical constituents of the coal, e.g. carbon, sulfur, nitrogen, hydrogen oxygen (water) and mineral ash. The proximate analysis can be determined readily by a minimum of equipment and relatively unskilled personnel, but the ultimate requires usually a trained chemist so that method of getting the latter from the former has obvious advantages.

"Of what use is the ultimate?" is a fair question. Each pound of coal when it burns will liberate enough heat to raise the temperature of a ton of water about 6°F or evaporate about 12 pounds of water at the normal boiling point. However, not all of this heat can be utilized when burning the coal under a boiler. The purpose of the boiler is to use as much of the heat as possible naturally so

-more-

that the method of operation of the boiler is important.

There are many variables to be considered such as the rate of coal burning, the temperature of the flames produced, the amount of air supplied, etc. To make an adequate study of these variables entails the making of an energy balance, commonly called a boiler test, to determine these various operating characteristics To make such an energy balance requires the use of the ultimate analysis.

Equations are given in the paper for finding the heating value of the coal from the proximate analysis if the heating value cannot be determined directly with the available equipment. From the heating value, the percentages of carbon and hydrogen can be directly determined.

The amount of free moisture is taken directly from the proximate analysis, the nitrogen calculated as a percentage of the combustible of the proximate analysis and the ash of the proximate, corrected for its sulfur content by a method which gives, in our opinion, a much more accurate representation than the current practice to use the proximate analysis ash directly.

Finally the sulfur can be found from the heating value and the carbon and hydrogen percentages and the combined water is found by difference of the total of the above constituents subtracted from 100%.

We believe that the treatment given for consideration of the sulfur in the coal presents a different slant on coal than has heretofore been given. The methods outlined in the paper should be useful in power plant operations, particularly the smaller power plants where adequate equipment and personnel are not available for the more complicated ultimate analysis.

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Mailed: March 26, 1951
FOR RELEASE:

MIDWEST POWER CONFERENCE

ADVANCE FOR RELEASE AFTER 3 P.M., FRIDAY, APRIL 6, 1951

Scheduled delivery time: 2 p.m., Sherman Hotel, Chicago

"New Developments in Lightning Arrester Design"

By J. W. Kalb, Ohio Brass Co., Barberton, O.

AN ABSTRACT:

A lightning arrester for general purpose protection of station apparatus has been developed which is small, light weight and inexpensive.

The basic operating principles are the same as those used successfully for years in lightning arresters for station use, but, through design features and close manufacturing controls, it has been possible to obtain virtually unexcelled protective levels within limited sizes and cost. Other design criteria of the arrester are:

Impulse sparkover voltage is kept low as possible because of its practical benefit in reducing arrester discharge voltage under service conditions.

Discharge voltage and sparkover voltage tolerances are kept as small as possible because it is not the average arrester voltage but the average plus tolerance which determines usable protective margin. A further benefit of close tolerance is to increase the strength of the weakest component of the valve element, the strength of a complete arrester being determined by that of its weakest electrical "link."

To assure good service performance it meets the most severe existing American Standards Association withstand tests for arresters used in the

-more-

protection of station apparatus.

The arrester elements are protected from the effects of weather and moisture by a multiple gasket seal with permanent spring reinforcement.

Mechanical reliability is obtained with galvanized malleable iron end castings and Portland cement joints between the castings and the porcelain housing.

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ADVANCE FOR RELEASE AFTER 3 P.M., FRIDAY, APRIL 6, 1951

Scheduled delivery time: 2 p.m., Sherman Hotel, Chicago

"Power Transformer Impulse Acceptance Tests"

By Byron Evans, assistant head, power system technical section, U. S. Bureau of Reclamation, Denver, Colo.

AN ABSTRACT

In electric power systems that are safe, economical, and practical, the power is usually generated at relatively low voltage, sent over lines at a much higher voltage to the area where it will be needed, and then used at a lower voltage.

These changes in voltage at various points in a power system are made by electric power transformers which must be carefully designed and manufactured if they are to perform satisfactorily. The power system engineer determines the kind of transformer required for a particular use and describes it to the transformer manufacturer.

The completed transformer is tested by the manufacturer to show that it will be safe to use and will have the performance that the power system engineer asked for. These tests are called acceptance tests.

One of the most important of these acceptance tests is the high-voltage impulse test which shows that the transformer is able to withstand the effects of

-more-

lightning which may strike the power lines to which the transformer is connected. This test consists of controlled lightning strokes which are generated and measured by special electrical circuits. Lightning strokes are very intense but they often do not last for more than one 10 thousandth of a second.

Transformer impulse tests have been performed for about 20 years. Because of the difficulty of controlling, measuring, and understanding the effects of the impulse, or artificial lightning strokes used in these tests, there was, at first, considerable skepticism about the value of these tests, and they were not made on very many transformers. These tests have been used extensively by manufacturers to find ways of improving power transformers and must be given a great deal of credit for the very reliable transformers that are being manufactured today.

Reports from the manufacturers show an increasing percentage of new transformers is being impulse tested. An appreciable percentage fails on these tests because of manufacturing and material defects, improper treatment before the tests, and design weaknesses.

In the earlier years of impulse testing there was insufficient knowledge to be certain of detecting all types of transformer failure that might occur during the tests, so some failures were not found and the transformers later failed when they were used on the power system. The technique of impulse testing has constantly been improved, and experience within the past few years indicates that there is little chance of a transformer insulation failure being undetected if the best of the presently known testing and failure detection methods are used.

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ADVANCE FOR RELEASE AFTER 10 A.M., THURSDAY, APRIL 5, 1951

Scheduled for delivery time: 9 a.m., Sherman Hotel, Chicago

"Microwaves for Relaying Control and Communication."

By Archie W. Adams, Relay Section, System Engineering Branch, Bonneville Power Administration, Portland Oregon.

AN ABSTRACT

The Bonneville Power Administration, operating a transmission system of more than 4,000 circuit miles in the Pacific Northwest, is one of the first power utilities to make widespread use of microwave. This utility has over 200 miles of microwave circuits in operation at the present time and, within five years expects to increase this figure to at least 1400 miles.

While the microwave system of beamed radio waves was invented some years ago, World War II saw the system perfected, and it is now being widely used for supplying adequate communication facilities for the power systems.

In order to keep a continuous flow of power from the generating stations to the customers, it is necessary that the load dispatcher be continuously in touch with system conditions. Instruments in the load dispatcher's office give continuous readings of power conditions at widespread points on the network by means of signals sent from one microwave station to another over radio waves that are reflected and beamed like the light from a giant searchlight. Up to twenty or more simultaneous conversations can be carried over the same radio waves.

-more-

This system has been shown to provide reliable communication circuits at less cost than any other method. The circuits are not affected by weather conditions such as heavy snow and ice which would put most wire telephone lines out of service.

In connection with this radio system, the engineers have developed equipment for automatically showing the exact location of any trouble on the major transmission lines. Within seconds after lightning or other trouble has caused one of these transmission lines to open up, the recording equipment will give the exact location and permit repair crews to be dispatched without the previous long delay while miles of line were patrolled in a search for the cause of trouble.

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ADVANCE FOR RELEASE AFTER 3 P.M., THURSDAY, APRIL 5, 1951
Scheduled delivery time: 2 p.m., Sherman Hotel, Chicago

"Influence of Freezing on Heat Pump Ground Coil Capacity."

By A. D. Kafadar, and I. B. Fieldhouse, Research Engineers, Armour Research Foundation of Illinois Institute of Technology, and R. A. Budenholzer, Illinois Institute of Technology

AN ABSTRACT

During the past few years the Armour Research Foundation has conducted research covering both the experimental and theoretical aspects of the problem regarding the possibilities of the heat pump as a practical heating and cooling device for all types of buildings.

Since the largest potential market for such a system is the residential heating market, its success will depend to a large extent on its ability to compete with existing and more conventional methods of heating and cooling. Aside from the many advantages which the system offers to the customer, such as summer cooling without additional equipment, ease of operation, and cleanliness, it must nevertheless also compete favorably on an economic basis. In addition, the use of the heat pump can increase the natural resources of the nation.

It has been shown that a heat pump can be operated successfully on electrical energy and is able to compete with other fuels, even coal, when current can be purchased for two cents per kilowatt hour. It can be operated with an

-more-

engine-driven compressor in such a manner that about twice the heat now obtainable from a given fuel oil or gas can be delivered.

With such a promising future it might be asked why the heat pump is not widely used. The reason is that the problem of finding a suitable source of heat for the evaporator coils of the heat pump has been very difficult. Until a few years ago the only heat sources given consideration were outside air and well water. The former is unsuitable in the colder regions of the United States where the temperature often drops below freezing. The latter is suitable where available, but the large quantity of water reqtired eliminates its use in many localities. Recently a great deal of attention has centered around the possibility of using the ground as a source of heat and the results at present appear very favorable, especially for rural and suburban installations where a moderate amount of land is available for heat withdrawal.

However, there are still many engineering problems to be solved regarding the use of the earth as a source of heat. One of them is knowledge of the temperature distribution around a pipe buried in the ground for withdrawing heat. This knowledge is essential for predicting the coefficient of performance and capacity of a heat pump using the earth as the heat source.

As heat is withdrawn from the soil it is possible that the moisture in the soil surrounding the pipe will freeze. The effect of the freezing of moisture in the soil on the temperature distribution around a pipe when withdrawing heat at a constant rate from the surrounding earth is the subject of the present paper. This paper presents a method for predicting the radius to which the soil is frozen and for calculating the performance of a heat pump when freezing in the soil occurs.

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ADVANCE FOR RELEASE AFTER 3 P.M., THURSDAY, APRIL 5, 1951

Scheduled delivery time: 2 p.m., Sherman Hotel, Chicago

"Tennessee Valley Authority Hydroelectric Program."

By Harry Wiersema, Assistant to the Chief Engineer, Tennessee Valley Authority, Knoxville, Tenn.

AN ABSTRACT

The TVA power system, which is largely a hydroelectric system, has been a controversial issue for many years. In spite of wide spread opposition, this system has grown from a mere infant to the largest single integrated system in the United States, if not in the world, in a period of less than 18 years.

This phenomenal growth has been due to several factors, not the least of which is the successful operation of a multiple-purpose system unique in history where for the first time an entire river has been completely developed for all of its potentialities. Starting with a single dam, the Wilson Dam, this system now comprises 37 water control projects, eighteen of which were constructed by the TVA's own construction organization, the others being added to the system by acquisition or contractual operating agreements.

In general, these projects are classified into two main types, a storage type, the main function of which is to store water on the tributaries in order

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to regulate the flow of the main river for flood control and power, and a run-of-river type built on the main river in order to improve it for navigation as well as to utilize the regulated flow of the river for more efficient power generation. These two types supplement each other in the development of a system in which no one project is by itself economically sufficient, but in which each makes an essential contribution to the functioning of the entire integrated system.

The successful operation of this system for an extended period has proved a point of long standing engineering controversy, namely that the same storage space in a reservoir can be used for both flood control and power generation without jeopardy to either. It has also proved that the returns on the investment made by the Federal Government for power facilities are consistent with economic investment principles, in spite of the extremely low rates for power that have been adopted by this system and are still in force.

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MIDWEST POWER CONFERENCE

ADVANCE FOR RELEASE AFTER 10 A.M., FRIDAY, APRIL 6, 1951

Scheduled delivery time: 9 a.m., Sherman Hotel, Chicago

"Experiences with Silica Removal Demineralizer Plants"

By S. B. Applebaum, Manager, Water Treatment Division, Cochrane Corp., Philadelphia

AN ABSTRACT

Silica Removing Demineralizers are now being installed for high pressure boiler plants instead of Evaporators.

A brief survey of the research developments in the field of ion-exchange which led to this result is given. This traces the development of sodium zeolite - then hydrogen zeolite to remove alkalinity in addition to hardness so as to overcome the difficulties from the use of sodium zeolite alone - then the weak-base anion exchangers which removed sulfates and chlorides but not silica - fluoride method of removing silica - and finally the various strong-base anion exchangers to remove silica.

An actual Silica Removal Demineralizer at the Prairie Creek Station of Central Iowa Cooperative at Cedar Rapids, Iowa, is described. This was installed early in 1950 to provide treated make-up water for two boilers rated at 230,000 lbs/hr evaporation at 850 psig pressure. Evaporators previously purchased were to be used if necessary, but the results from the Demineralizer were so reliable

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that the evaporators were not hooked up.

Tests run in the fall of 1950 are given in detail including log sheet and graphs of results, etc. Even when the cation unit is over-run to allow cation leakage the silica did not leak through the anion unit. The final effluent obtained during the test was better than guaranteed - (a) total dissolved solids of under 1 to 2.5 ppm (200,000 to 500,000 ohms); (b) silica under 0.05 to 0.1 ppm; (c) pH value over 8.0.

A second installation at Pennsylvania Electric Co., Front Street Station at Erie, Pa. to be installed in 1951 is also described. At first this plant intended to segregate condensate to be fed alone to the 1250 psi topping boilers and a Hydrogen-Sodium zeolite plant was to be installed to feed the 650 psi boilers, but later the consulting engineers, Gilbert Associates, at Reading,Pa. found that it was more economical to install a Demineralizer to feed all the boilers.

This Demineralizer will have a capacity of 400 gpm. A rubber-lined vacuum deaerator between the cation and anion stages will remove dissolved oxygen and free carbon dioxide to prevent corrosion in stage bleeder heaters and feed piping. The Demineralizer will be fully automatic. No regenerant measuring tanks are included. Liquid caustic soda and sulfuric acid to be purchased in tank-car lots will be stored in large steel tanks near the R.R. siding and will be pumped automatically to the unit being regenerated. The instrumentation is described, also flow diagram and operating results guaranteed as well as operating costs.

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MIDWEST POWER CONFERENCE

ADVANCE FOR RELEASE AFTER 4:30 P.M., THURSDAY, APRIL 5, 1951

Scheduled delivery time: 3:30 p.m., Sherman Hotel, Chicago

"Instrumentation and Control for Small Power Plants."

By P. S. Dickey, Vice President, Bailey Meter Co., Cleveland

AN ABSTRACT

Supervisory instruments and more complete automatic controls are being applied extensively to large and small power plants to improve fuel economy, to keep overall costs at a minimum, to insure safe and reliable operation and to utilize operating personnel efficiently.

For heating and industrial process work, small semi-automatic steam generating plants are available which will provide efficient operation over a wide range of load when burning either coal, oil or gas. Factory assembled, packaged type plants are now available and substantial reductions in field erection costs can be achieved through the use of this type of plant.

Smoke density recorders are being utilized to guide the operators in elimination of the smoke nuisance, particularly where the plants are located in urban areas. On small stoker fired units, installation of over-fire air jets with automatic control from the smoke density recorder provides an effective and efficient means of eliminating the smoke nuisance.

-more-

Many industries require process steam in amounts varying from 30,000 to 200,000 lb of steam per hour and upward. Each plant has its own particular problem and it is difficult to apply a standardized plant to this service. Careful surveys of requirements and the greatest engineering skill are needed to develop designs best suited for the particular problems posed. The trend, however, is towards fewer boilers and units of higher capacity because overall costs and cost of supervision are reduced with fewer, larger units.

While fuel savings alone will justify the installation of a complete supervisory instrument and control station for this type of unit, better performance and more reliable operation will be achieved through the use of adequate supervisory equipment.

Centralized supervisory control stations are being used extensively in large and small power generating stations. New and improved designs of supervisory and control equipment are being introduced to improve operator efficiency and reduce operating errors.

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Mailed: March 27, 1951
FOR RELEASE: Immediate

CHICAGO -- Fifty-six papers on the latest developments in 24 phases of power generation, transmission, and consumption will be presented at the thirteenth annual Midwest Power Conference April 4, 5, and 6 in the Sherman Hotel.

Topical reports will be given on fuels and combustion, gas turbines, hydro power, generating equipment, soot removal, industrial systems, electronics, system control and operation, electric heating, and heat pumps.

Principal speakers, exclusive of technical papers, will be W. C. Mullendor president, Southern California Edison Co., Los Angeles; Walker L. Cisler, executive vice president, Detroit Edison Co.; Dr. John T. Rettaliata, vice president and dean of engineering at Illinois Institute of Technology, Chicago; Jack T. Wilson, chief physicist, Allis-Chalmers Manufacturing Co., Milwaukee; and John Slezak, president, Turner Brass Co., Chicago.

Mr. Mullendore will speak April 4 at the opening session on "The Engineer' Responsibility in the Fight Against the Disintegration of the Foundations of Freedom."

Mr. Cisler will report April 4 at the opening session on "The National Power Situation."

Dr. Rettaliata will speak April 4 at a luncheon meeting on "Jet Propulsion.

Mr. Wilson will address the April 5 luncheon on "What Can the Engineer Contribute to Better Living."

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Mr. Slezak's address, "The Engineering Mind in Business," will be given at the April 6 luncheon.

The conference is sponsored by Illinois Tech with the cooperation of nine Midwestern universities and nine technical societies. Dr. Roland A. Budenholzer, professor of mechanical engineering at Illinois Tech, is conference director.

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Mailed: MARCH 27, 1951
FOR RELEASE: Immediate

CHICAGO--Alice Orphanos, 5077 W. Jackson blvd., and Martin Hoeft, Maywood, have been appointed to the student admissions advisory board at Illinois Institute of Technology.

Members of the board will assist in orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During the annual Open House, May 3 and 4, they will visit Chicago high schools, inviting principals, faculty, and students to see the Illinois Tech campus and take part in the program.

Miss Orphanos is a sophomore in the home economics department of the Institute. Her other activities include the Girl's Glee Club, the Home Economics Club, the Illinois Tech Womem's Association, and Integral, student yearbook.

Hoeft is a senior in the industrial engineering department. He is treasurer of Delta Tau Delta fraternity, and secretary of the Society for the Advancement of Management.

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Mailed: MARCH 27, 1951

FOR RELEASE: Immediate

CHICAGO--Two southwest side students have been appointed to the student admissions advisory board of Illinois Institute of Technology.

They are Joan Graper, 9430 S. Loomis st., and Patricia Stroner, 6153 S. Mason ave., both seniors in the home economics department of the Institute.

Members of the board will assist in orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During the annual Open House, May 3 and 4, they will visit Chicago high schools, inviting principals, faculty, and students to see the Illinois Tech campus and take part in the program.

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Mailed: MARCH 27, 1951
FOR RELEASE: Immediate

CHICAGO--Two northwest side students have been appointed to the student admissions advisory board at Illinois Institute of Technology.

They are Dolores Dain, Elmwood Park, senior in the home economics department, and Joan Nehlsen, 7344 W. Farwell ave., sophomore in the biology department of the Institute.

Members of the board will assist in orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During the annual Open House, May 3 and 4, they will visit Chicago high schools, inviting principals, faculty, and students to see Illinois Tech's campus and take part in the program.

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Mailed: March ~~26~~ 27, 1951
FOR RELEASE: Immediate

CHICAGO -- Three south side students have been appointed to the student admissions advisory board of Illinois Institute of Technology.

They are Patricia Downing, 7431 Jeffery blvd., senior in the home economics department, George Aravosis, 846 E. 55th st., and Harry Leiser, 503 W. 26th st., seniors in the mechanical engineering department of the Institute.

Members of the board will assist in orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During the annual Open House, May 3 and 4, they will visit Chicago high schools, inviting principals, faculty, and students to see the Illinois Tech campus and take part in the program.

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Mailed: March ~~26~~ 27, 1951
FOR RELEASE: Immediate

CHICAGO -- Patricia Downing, daughter of Mr. and Mrs. W. J. Downing, 7431 S. Jeffery blvd., has been appointed to the student admissions advisory board of Illinois Institute of Technology.

Members of the board will assist in orientation of incoming Freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During Open House, May 3 and 4, they will visit Chicago high schools, inviting the principals, faculty, and students to see Illinois Tech's campus and take part in the program.

Miss Downing is a senor in the home economics department of the institute. She is a member of the Illinois Tech Women's Association, the Home Economics Club, the Girl's Glee Club, the Student Union Committee, the senior class social committee, and is on the staff of Integral, student yearbook.

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Mailed: March ~~26~~ 27, 1951
FOR RELEASE: Immediate

CHICAGO -- Harry R. Leiser, son of Mr. and Mrs. H. E, Leiser, 503 W. 26th st., has been appointed to the student admissions advisory board of Illinois Institute of Technology.

Members of the board will assist in orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During Open House, May 3 and 4, they will visit Chicago high schools, inviting the principals, faculty, and students to see Illinois Tech's campus and take part in the program.

Leiser is a senior in the mechanical engineering department of the Institute. He is captain of the Techawk baseball and basketball teams, and is president of Honor I, athletic club.

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CHICAGO -- Joseph C. Rodgers, son of Mr. and Mrs. F. C. Rodgers, 1417 Kirk st., Evanston, has been appointed to the student admissions advisory board at Illinois Institute of Technology.

Members of the board work on orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During Open House, May 3 and 4, they will visit Chicago high schools, inviting the principals, faculty, and students to see Illinois Tech's campus and take part in the program.

Rodgers is a junior in the civil engineering department of the Institute. He is a member of the swimming team, the Newman Club, Delta Lambda Xi fraternity, and is on the staffs of Tech News and the Newsletter, campus publications.

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Mailed: March ~~26~~ 27, 1951
FOR RELEASE: Immediate

CHICAGO -- Keith Wingate, son of Mr. and Mrs. F. E. Wingate, 2076 Washburn, Topeka, has been appointed to the student admission advisory board at Illinois Institute of Technology.

Members of the board work on orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During Open House, May 3 and 4, they will visit Chicago high schools, inviting the principals, faculty, and students to see Illinois Tech's campus and to take part in the program.

Wingate is a junior in the fire prevention and safety engineering department of the Institute. He is a member of Delta Tau Delta fraternity, Campus Players, the track team, and is on the staff of Tech News, student newspapers.

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FOR RELEASE: Immediate

CHICAGO -- Joan Nehlsen, daughter of Mrs. Helen S. Nehlsen, 7344 W. Farwell ave., has been appointed to the student admissions advisory board at Illinois Institute of Technology.

Members of the board work on orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During Open House, May 3 and 4, they will visit Chicago high schools, inviting the principals, faculty, and students to see Illinois Tech's campus and to take part in the program.

Miss Nehlsen is a sophomore in the biology department of the Institute. She graduated from Taft high school in 1949.

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Mailed: March ~~26~~ 27, 1957
FOR RELEASE Immediate

CHICAGO -- Donald Sickler, son of Mr. Edwin M. Sickler, 467 N. Broad st., Penns Grove, has been appointed to the student admissions advisory board at Illinois Institute of Technology.

Members of the board work on orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During Open House, May 3 and 4, they will visit Chicago high schools, inviting the principals, faculty, and students to see Illinois Tech's campus and take part in the program.

Sickler is a junior in the architecture department of the Institute.

-pap-

from

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Mailed: March ~~26~~ 27, 1951
FOR RELEASE: Immediate

CHICAGO -- Dolores Dain, daughter of Mr. and Mrs. E. L. Dain, 7940 Cressett dr., Elmwood Park, has been appointed to the student admissions advisory board of Illinois Institute of Technology.

Members of the board work on orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During Open House, May 3 and 4, they will visit Chicago high schools, inviting the principals, faculty and students to see Illinois Tech's campus and take part in the program.

Miss Dain is a senior in the home economics department of the Institute. She is a member of the Home Economics Club, the Illinois Tech Women's Association, and the Girl's Glee Club.

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Mailed: March ~~26~~ 27, 1957
FOR RELEASE: Immediate

CHICAGO -- Joan Graper, daughter of Mr. and Mrs. Lawrence Graper, 9430 S. Loomis st., has been appointed to the student admissions advisory board of Illinois Institute of Technology.

Members of the board work on orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During Open House, May 3 and 4, they will visit Chicago high schools, inviting the principals, faculty, and students to see Illinois Tech 's campus and take part in the program.

Miss Graper is a freshman in the home economics department of the Institute. She is a graduate of Morgan Park high school.

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Mailed: March ~~26~~ 27, 1951
FOR RELEASE: Immediate

CHICAGO -- Martin Hoeft, son of Mr. and Mrs. M. E. Hoeft, 1923 S. 23rd ave., Maywood, has been appointed to the student admissions advisory board at Illinois Institute of Technology.

Members of the board work on orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During Open House, May 3 and 4, they will visit Chicago high schools, inviting the principals, faculty, and students to see Illinois Tech's campus and take part in the program.

Hoeft is a senior in the industrial engineering department of the Institute. He graduated from Proviso high school in 1947.

-pap-

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Mailed: March ~~26~~ 27, 1947
FOR RELEASE: Immediate

CHICAGO -- Patricia Stroner, daughter of Mr. and Mrs. Louis Stroner, 6153 S. Mason ave., has been appointed to the student admissions advisory board of Illinois Institute of Technology.

Members of the board work on orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During Open House, May 3 and 4, they will visit Chicago high schools, inviting the principals, faculty, and students to see Illinois Tech's campus and take part in the program.

Miss Stroner is a junior in the home economics department of the Institute. She is a member of Delta Zeta sorority, the Girl's Glee Club, and the Home Economics Club.

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Mailed: March ~~28~~ 27, 1957
FOR RELEASE: Immediate

CHICAGO -- Alice Orphanos, daughter of Mr. and Mrs. Peter Orphanos, 5077 W. Jackson blvd., has been appointed to the student admissions advisory board of Illinois Institute of Technology.

Members of the board work on orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During Open House, May 3 and 4, they will visit Chicago high schools, inviting the principals, faculty, and students to see Illinois Tech's campus and take part in the program.

Miss Orphanos is a sophomore in the home economics department of the Institute. She is a member of the Illinois Tech Women's Association, the Girl's Glee Club, the Home Economics Club, and is on the staff of Integral, student yearbook.

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Mailed: March ~~26~~ 27, 1951
FOR RELEASE: Immediate

CHICAGO -- Two west side students have been appointed to the student admissions advisory board at Illinois Institute of Technology.

They are Alice Orphanos, 5077 W. Jackson blvd., a sophomore in the home economics department, and Harry R. Leiser, 503 W. 26th st., a senior in the mechanical engineering department of the Institute.

Members of the board will assist in orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During Open House, May 3 and 4, they will visit Chicago high schools, inviting the principals, faculty, and students to see Illinois Tech's campus and take part in the program.

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Mailed: March ~~26~~ 27, 1957
FOR RELEASE: Immediate

CHICAGO -- George D. Aravosis, son of Mr. and Mrs. Demetrios Aravosis, 846 E. 55th st., has been appointed to the student admissions advisory board of Illinois Institute of Technology.

Members of the board will assist in orientation of incoming freshmen, conduct tours of the campus each Saturday, and act in a general advisory capacity. During Open House, May 3 and 4, they will visit Chicago high schools, inviting the principals, faculty, and students to see Illinois Tech's campus and take part in the program.

Aravosis is a senior in the mechanical engineering department of the Institute. He is a member of Delta Lambda Xi fraternity, the student chapter of the American Society of Mechanical Engineers, the senior social committee, and plays intramural and interfraternity baseball and basketball.

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Mailed: March 28, 1951
FOR RELEASE: Immediate

CHICAGO -- A revolutionary principle of packaging which would permit an egg to be dropped unharmed from an airplane may soon be marketed commercially.

The new method, evolved by Harold Cohen, instructor in product design at the Institute of Design of Illinois Institute of Technology, operates on a pneumatic principle using confined air as a cushion.

Delicate instruments, chemicals, and explosive material can be packaged for transport without danger of shock or atmospheric damage with a saving of material, space, and expense, Cohen explained.

"Basically, the object is held between two elastic diaphragms by controlled and variable air pressure within two interlocking shells of metal, plastic or paper. The diaphragms are each sealed to the outer shell.

"Air pressure within the shells is controlled by valves, and can be varied with the size, weight, and density of the material or object being packaged. Overall size of the shell need be no more than twenty per cent larger than the object."

There is no limit to the size or weight of the object. Pressure may be varied to permit any suitable or desired degree of "play," or the object can be held absolutely rigid.

Plastic and metal shells may be stamped or cast and are re-usable. Cheaper models of treated paper are disposable. By using clear plastic, delicate instruments need not be removed from the casing, and can be read accurately withou danger of damage from handling.

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Final test models are now being completed by the Coastline Contracting Company, Inc., Newark, N. J., sole patent licensee.

Cohen, 25, a native of Brooklyn, developed his principle while a student at the Institute of Design. His class was given the problem of utilizing plastic as a packaging material.

A G. I. student and Navy veteran, Cohen recalled the complex, cumbersome casing of the shipboard chronometer (timepiece). His search led finally to an attempt to utilize the air which surrounds all objects, and he developed his first crude model in 1948.

The Institute of Design, a degree-granting department of Illinois Tech since December, 1949, is one of the nation's leading schools of commercial and industrial design.

Its program relates art, science and technology to every-day products and presentations, and is based on the philosophy that the task of the designer is to relate contemporary developments in materials and methods with art in mass-produced goods and articles.

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Mailed: March 28, 1951
FOR RELEASE: Immediate

CHICAGO -- An annual lectureship to honor the first two men to head departments of chemistry and chemical engineering at Illinois Institute of Technology has been established by Omicron chapter of Phi Lambda Upsilon, honorary chemical society.

The first McCormack-Freud Honorary Lecture will be at 8 p.m. April 25 on the Illinois Tech campus, chapter president Donald E. Laskowski, announced today. A dinner will precede the meeting. Both the dinner and the lecture are open to the public.

Prominent scientists in chemistry and chemical engineering will discuss progress in their respective fields at the annual lectures, Laskowski explained.

The annual lecture series has been named in honor of Professors Emeritus Harry McCormack and Benjamin B. Freud. They will speak April 25 on "Development of Chemistry and Chemical Engineering at Illinois Institute of Technology."

McCormack was professor of chemical engineering at the Institute from 1907 to 1946 and was a consulting chemical engineer. He is 74, lives at 440 Sunset rd., Winnetka, Ill.

Dr. Freud taught chemistry at the college from 1904 to 1949 and was chairman of the chemistry department from 1937 to 1947. He is 65, lives at 5858 Magnolia ave., Chicago.

-was-

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Mailed: March 28, 1951
FOR RELEASE: Immediate

CHICAGO -- The symphony orchestra, concert band, girl's glee club and men's glee club of Illinois Institute of Technology will present a concert at 8 p.m. Sunday, April 8, at Messiah Lutheran church, 1910 W. 64th st.

There are approximately 100 students in the four groups directed by O. Gordon Erickson, musical director for Illinois Tech.

Program will include both religious and secular music. The band will play Richard Strauss' "Death and Transfiguration," and will feature John Gallagher, clarinet soloist, in Weber's "Concertino."

The men's glee club will be heard in three a cappella numbers, "Fierce was the Wild Bellows" by Noble, "Trumpeter" by Dix, and "Brothers, Sing On" by Grieg. The orchestra will play the "May Time" suite by Rudolph Friml.

During the concert tour this year the groups have made appearances in Chicago, Springfiled, Ill., and Lincoln, Ill. April 15 they will present a concert in Elgin, Ill., and on April 22 they will present their biggest program of the season at the Eighth Street Theatre in Chicago.

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Mailed March 28, 1951
FOR RELEASE: Immediate

CHICAGO -- Tin plate producers, following up the research efforts of a hard-working team of scientists from Armour Research Foundation of Illinois Institute of Technology, may pull palm oil off the production line and send in a new substitute--specially processed tallow.

The switch, now that successful mill tests have been concluded, should bring smiles of relief to meat packers and Uncle Sam's armed forces as well as members of the steel industry, who visualize a possible saving of between $500,000 and $1,000,000 a year at current market prices.

It will aid in maintaining a supply of tin can containers for the armed forces. Meat packers will have a new use for their overabundance of tallow. The steel industry will have a cheaper, readily-accessible substitute oil for their hot dip tinning operations.

Palm oil, imported from the East Indies and North Africa, has constantly troubled the steel industry.

Costs are high and unstable. And in time of war, enemy action against shipping could coke off long supply lines. Some 7,000 tons of palm oil are used annually for hot dip tinning in the U.S. Numerous substitutes for hot dip tinning have been tried. Several patents have been issued. But up till now the industry has largely continued to use palm oil.

War-time experience re-emphasized the critical and immediate need for a workable substitute. The government, fearing a shortage, hastened stockpiling operations.

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The American Iron and Steel Institute turned to science and brought the problem to Armour Research Foundation, a not-for-profit organization of scientists specializing in research for industry.

William R. Johnson, research metallurgist, and George G. Ference, research chemist, were assigned the task.

To discover and develop a substitute for the palm oil used in hot dip tinning, they were confronted with what appeared to be an almost impossible list of requirements.

The oil, to function properly, had to make a smooth, bright tinplate. It had to possess low volatility; have high flash and fire points; neither oxidize nor polymerize readily; have low viscosity; be non-toxic, odor-free, preferably edible; should not become rancid during storage nor interfere with lithographing, lacquering or soldering.

And, the substitute had to be inexpensive and readily available, preferably from domestic sources.

A big order!

For two years they surveyed literature, compiled questionnaires, visited steel mills, interviewed executives and production men, fashioned new apparatus, conducted tests, screened materials. They even developed a new theory for tinning oil action.

Laboratory testing procedures for evaluating palm oil substitutes were developed which enabled oil producers to test their samples without the greater expense and time required by full-scale mill runs.

They had help. Armour Research Foundation uses "The Armour Plan"--a system whereby all scientists skilled in phases of the problem pitch in to help bring about a quick and effective solution.

It finally was decided that tallow--cheap and available in quantity from U.S. meat packing plants would be an ideal substance for a substitute tinning oil.

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Following rigid specifications set by Foundation chemists, commercial fat processors prepared a special tallow. This was tested, modified, tested again.

The time was at hand for the final pay-off check--a full scale mill test at a major steel plant.

The test was an instant success. It produced hot dip tinplate on a regular production line for more than a month.

Johnson lives at 2222 E. 81st st., Chicago, and Ference at 416 Deming pl.

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Mailed: March 28, 1951
FOR RELEASE: Immediate

CHICAGO -- Students of Illinois Institute of Technology will compete for cash prizes established by the Wunsch Foundation, Brooklyn, for the best papers on materials handling.

Rules of the contest were announced today by Dr. John T. Rettaliata, vice president and dean of engineering.

Papers must not exceed 2,000 words and will be judged on the basis of originality of thought, use of outside material, demonstration of independent study and research, organization and presentation of material, and composition and clarity of expression.

All manuscripts become the property of the Wunsch Foundation which last September provided funds to Illinois Tech for the annual awards. Closing date is May 1.

Papers will be judged by a five-man faculty board of review. All students of the Institute are elegible.

-jeg-

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Mailed: March 28, 1951
FOR RELEASE: Immediate

CHICAGO-- Anthony J. Ingolia, 6054 Annunciation st., has won second prize for his design of a table lamp in the resent competition sponsored by the New York Museum of Modern Art and the Heifetz Manufacturing Co.

Ingolia is a senior in the Institute of Design of Illinois Institute of Technology, Chicago.

His lamp, along with nine other winning designs, has been manufactured by the Heifetz Co. The lamps are on sale at several stores throughout the country.

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Mailed: March 28, 1951
FOR RELEASE: Immediate

CHICAGO-- Gilbert A. Watrous, 2956 N. Clark st., has been awarded a special prize for his design of a floor lamp in a recent competition sponsored by the New York Museum of Modern Art and the Heifetz Manufacturing Co.

Watrous graduated from the Institute of Design of Illinois Institute of Technology in January.

His lamp, along with nine other prize winning designs, has been manufactured by the Heifetz Co. They will be on exhibit at the Institute's auditorium, 632 N. Dearborn st., during April, and may be purchased at Carson Pirie Scott & Co.

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Mailed: March 28, 1951
FOR RELEASE: Immediate

CHICAGO-- Joseph G. Burnett, RFD #1, Barrington, has won first prize for his design of a table lamp in a recent competition sponsored by the New York Museum of Modern Art and the Heifetz Manufacturing Co.

Burnett is a senior at the Institute of Design of Illinois Institute of Technology.

His lamp, along with nine other prize-winning designs, has been manufactured by the Heifetz Co. and is currently being sold by Carson Pirie Scott & Co., and other stores throughout the country.

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Mailed: March 29, 1951
FOR RELEASE:

CHICAGO -- An address by W. A. Roberts, president of Allis-Chalmers Manufacturing Company, Milwaukee, will high-light the thirteenth annual Midwest Power Conference.

Mr. Roberts will speak at 6:45 p.m. April 5 at the All Engineers dinner in the grand ballroom of the Sherman Hotel.

Wilfred A. Sykes, chairman of the executive committee of Inland Steel Company, will be toastmaster.

More than 2,500 engineers are expected to attend the three-day conference April 4, 5, and 6 in the Sherman Hotel. The meeting is sponsored by Illinois Institute of Technology with the cooperation of nine Midwestern universities and nine technical societies.

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Mailed: March 29, 1951
FOR RELEASE: Immediate

CHICAGO -- Two seniors and one graduate of the Institute of Design of Illinois Institute of Technology have won citations for their designs of modern lamps in a contest sponsored by the New York Museum of Modern Art and the Heifetz Manufacturing Co.

Joseph G. Burnett, senior, RFD #1, Barrington, Ill., won first place in the table lamp division, and Anthony J. Ingolia, senior, 6054 Annunciation st., New Orleans, La., won second place. Gilbert A. Watrous, a January graduate, 2956 N. Clark st., was awarded a special prize in the floor lamp division.

Twelve citations were awarded in the nation-wide competition.

Ten of the prize winning lamps will be on display throughout April in the auditorium of the Institute of Design, 632 N. Dearborn st.

The ten lamps have been manufactured by the Heifetz Lamp Co., and are on sale at Carson Pirie Scott & Co. and other stores throughout the country.

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Mailed: March 29, 1951

FOR RELEASE: Immediate

CHICAGO -- Works of four prominent staff members will be shown April 4 through April 24 in Illinois Institute of Technology's current art series.

Paintings, sculpture, prints, and constructions by Serge Chermayeff, director of the Institute of Design of Illinois Tech, and Hugo Weber, Richard Koppe, and Misch Kohn, all instructors at the Institute, will be shown.

The exhibit will be held in the lobby of the Metallurgical and Chemical Engineering building, 10 West 33rd street. A tea will be given at 4 p.m., April 4.

Purpose of the series is to stimulate interest and appreciation of art and culture among engineering students.

-jeg-

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Mailed: March 30, 1951
FOR RELEASE: Immediate

CHICAGO -- More than 2,500 engineers and power specialists from the United States and Canada will attend the thirteenth annual Midwest Power Conference April 4, 5, and 6 in the Sherman Hotel.

Fifty-six papers on 24 phases of power production, transmission, and distribution will be presented.

Interesting and topical reports will be given on developments in diesel engine gas turbines, fuels and combustion, hydro power, generating equipment, soot removal, industrial systems, electronics, and system control and operation.

Joseph C. McCabe, associate editor of Power, will present an analysis of practical and workable air pollution control ordnances.

Application of atomic energy to the power industry will be described by George G. Brown, director of the engineering division, Atomic Energy Commission, Washington, D.C.

The to-date progress and growth of the Tennessee Valley Authority project will be detailed by Harry Wiersema, assistant to the chief engineer, TVA, Knoxville, Tennessee.

The economics of electric house heating will be the subject of a report by W. F. Friend, Ebasco Services, Inc., New York.

A. G. Mellor, power generation division of General Electric Corporation, will present a paper on power generation by gas turbines.

Four papers will be presented on progress in gas turbine locomotive development.

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Two papers will deal with developments of the heat pump for use in home heating.

New materials and construction methods for small power plants will be described by C. Maxwell Stanley, Stanley Engineering Corp., Muscatine, Iowa.

The three-day conference is sponsored by Illinois Institute of Technology with the cooperation of nine Midwestern universities and nine technical societies.

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(Note to Editors: Popular abstracts of 36 papers will be available in the conference press room.)

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Mailed: March 30, 1951
FOR RELEASE: Immediate

CHICAGO -- Residents of East Chicago, Ind., were showered by the heaviest dustfall in recent months during the February 15-March 15 period. An average of 193 tons fell on each square mile within the city limits.

"The unusually high average can be partially blamed on the clouds of dust that descended on the area around 3403 Elm Street," Maurice Kayner, chief analytical chemist at Armour Research Foundation of Illinois Institute of Technology, said today.

Each month as a public service the Foundation measures and analyzes the dust collected at eight sampling stations for the East Chicago smoke inspection and abatement department.

The city's cleanest locality was the area near the 4534 Magoun Ave. station where only 113 tons fell.

Here is the tonnage-fall as recorded at the various collecting stations:

Address of Station	Total Dust Fall
4534 Magoun	113.41
4901 Northcote	128.43
5200 Indianapolis	121.92
4737 McCook	164.38
4707 Euclid	159.25
3948 Adler	168.51
3403 Elm	483.79
3019 Dickey	202.58
Average	192.78

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